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738

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<223> n = a,t,c or g

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 533

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 <212> DNA
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 <211> 1895
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<213> Homo sapiens

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<210> 548
<211> 1864
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)...(1864)
<223> n = a,t,c or g

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nggc						1864

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 <211> 649
 <212> DNA
 <213> Homo sapiens

<400> 549						
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<210> 550
 <211> 696

<212> DNA
 <213> Homo sapiens

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 ttaccaagggt gcttatttttc gacaaaatgc cctgtcactc agaggacgca tgcgtatact 240
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 tggttcactt atacaacatg atccatgggc tcgtgc 696

<210> 551
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1037)
 <223> n = a,t,c or g

<400> 551
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 tttcattgaa aatatttttag tctcttagtt gcttctcaaa attcaactta cagggaagttt 960
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 tatgtgagcc gagaacc 1037

<210> 552

<211> 813
 <212> DNA
 <213> Homo sapiens

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 <211> 1451
 <212> DNA
 <213> Homo sapiens

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<210> 554
 <211> 1663
 <212> DNA
 <213> Homo sapiens

<400> 554
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<210> 555
 <211> 1040
 <212> DNA
 <213> Homo sapiens

<400> 555
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<210> 556
 <211> 1331
 <212> DNA
 <213> Homo sapiens

<400> 556						
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<210> 557
 <211> 971
 <212> DNA
 <213> Homo sapiens

<400> 557

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<210> 558

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 558

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 <211> 820
 <212> DNA
 <213> Homo sapiens

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<210> 560
 <211> 1601
 <212> DNA
 <213> Homo sapiens

<400> 560
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ccttcttcag ctctagatcc acgggggcgg ccactcgtgc c 1601
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<210> 561
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = a,t,c or g
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<211> 1772
<212> DNA
<213> Homo sapiens
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cgggcataga agctggcggc ccagagcaaa tccgcccact gcatgcacac cagcatgtac 780
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<210> 563
 <211> 521
 <212> DNA
 <213> Homo sapiens

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<400> 563
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```

<210> 564
 <211> 840
 <212> DNA
 <213> Homo sapiens

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<400> 564
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aagggtcgct gttcctgcat cagcaccaac caagggacta tccacctaca atccttgaaa 180
gaccttaaac aatttgcccc aagcccttc tgcgagaaaa ttgaaatcat tgctacactg 240
aagaatggag ttcaaacatg tctaaaccca gattcagcag atgtgaagga actgattaaa 300
aagtgggaga aacagggtcag ccaaaagaaa aagcaaaaga atgggaaaaa acatcaaaaa 360
aagaaagttc tgaaagttcg aaaatctcaa cgttctcgtc aaaagaagac tacataagag 420
accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca 480

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ttccaaagga	ggatggcata	taatacaaag	gcttattaat	ttgactagaa	aatttaaaac	540
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<210> 565
 <211> 4345
 <212> DNA
 <213> Homo sapiens

<400> 565

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<210> 566

<211> 984

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(984)

<223> n = a,t,c or g

<400> 566

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 <212> DNA
 <213> Homo sapiens

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 <211> 1569
 <212> DNA
 <213> Homo sapiens

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<210> 569

<211> 1207

<212> DNA

<213> Homo sapiens

<400> 569

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 <213> Homo sapiens

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<210> 571
 <211> 2219
 <212> DNA
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<210> 572
 <211> 1671
 <212> DNA
 <213> Homo sapiens

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aagcaatagc	acagcctgcc
taggaactgg	tatgtggatg
tcagccatcg	gcacccgctg
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<210> 573
 <211> 1612
 <212> DNA
 <213> Homo sapiens

<400> 573

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<210> 574
 <211> 928
 <212> DNA
 <213> Homo sapiens

<400> 574

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<210> 575
 <211> 1116
 <212> DNA
 <213> Homo sapiens

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<223> n = a,t,c or g

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<210> 596
 <211> 816
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens


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<210> 600
<211> 802
<212> DNA
<213> Homo sapiens

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<210> 601
<211> 859
<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 602						
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2047

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 <211> 1927
 <212> DNA
 <213> Homo sapiens

<400> 603

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 <212> DNA
 <213> Homo sapiens

<400> 604

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<210> 605
 <211> 783
 <212> DNA
 <213> Homo sapiens

<400> 605						
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 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 639
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<213> Homo sapiens

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<211> 1210

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<211> 2231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = a,t,c or g

<400> 650

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<400> 651

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 <212> DNA
 <213> Homo sapiens

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 <223> n = a,t,c or g

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 <212> DNA
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 <211> 1725
 <212> DNA

<213> Homo sapiens

<400> 654

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aacttggaag	atcttgaaga	gaagaatctt	gcgagtggtc	gcgcactgca	ataaacccaa	1680
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<210> 655

<211> 748

<212> DNA

<213> Homo sapiens

<400> 655

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cacggaaatc	atccgttact	ccttttatac	attcagtcta	ttaaaccatc	tgccctacct	480
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tttaccaca	tctacaaaaa	aaattttttt	aattagccag	gtatgggtggc	atatgcttgc	660
agtctcagct	gacgctaagg	cggcagaaat	gcctgctgta	cttaagcctg	ggccatagag	720
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<210> 656
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 656
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 caaaaaaaaa aacattt

<210> 657
 <211> 746
 <212> DNA
 <213> Homo sapiens

<400> 657
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 gagatcggca ccgagatcag ccgcaagatc cggagtgtcca ttaaggggaa attacaagaa 180
 ttaggagctt atgttgatga agaacttcct gattacatta tggatgaggt ggccaacaag 240
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 cgcgagacct gaaaaaagag attccagagt ttctacaagt tcgcaggagt caaaaaccac 540
 aaatgtcaga cagacttacg atgatggagc tgcaaccaga ctaatgtcaa cagtgaacct 600
 ttgagggagc cagcaccctc tgaagatgtg attgatatta agccagaacc agatgatctc 660
 attgacgaag acctcaactt tgtgcaggag aaaccttat ctcaaaaaa acctacagtg 720
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<210> 658
 <211> 559
 <212> DNA
 <213> Homo sapiens

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<400> 658
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tgggcttgcc agcgccagcg ataccgtctg gctcgtgggt gccttcagca atgcctccag 420
gggcttccag aaccgggaga cactggctga cattccggcc tccccacagc tgctgaccga 480
tggccactac atgacgctgc ccctgtctcc ggaccagctg ccctgtggcg accccatggc 540
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<210> 659
 <211> 538
 <212> DNA
 <213> Homo sapiens

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<400> 659
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acaggacaga gacagctgcc cgggaggatg ggagaacaga aagagggagg aaacgccgag 180
cactgacctg ggggagggga gtaaagagaa gtgaaggggg attggaaggg aactggagaa 240
tgagagaagc aacaggcggg gtgcgtgtag gagggcggga gagccaatga caagacagaa 300
aaggcagaga aagcaagca agaccagact cctcatccgg taacactgtg tcaggtcatt 360
gccctccac cccgccccca acccataaac tgaaaacaag taggaacctg gataaaatag 420
tcttaacaat tttttttttg agacggagtc ttgctgtgtt gccagggctg gagtgcagtg 480
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<210> 660
 <211> 735
 <212> DNA
 <213> Homo sapiens

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<400> 660
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accccacag gcgctcagca cccagggaag gcgctgtgtt cccgatgct ggctcctccc 180
tgagccccga cggctctcga ggttctgagc ctgtggcctg cacagggaac ttctctctccg 240

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actgcattta	tgcctctgtg	gatgtgaagg	ctattttctag	aaatctcttc	ctttgcagaa	300
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ttctcccctc	acccctcctca	ccttcctcac	atcctgtgcc	ctgggggacc	agcagctgct	420
tccacccaga	acaagcggga	gcctgtgtca	ggaaagcatg	tcagagcaga	gctgccagat	480
gtccgaactg	cggctcctcc	tcctgggaaa	atgccgctcg	ggaaaaagtg	ccacaggaaa	540
tgccattctg	ggcaaacatg	tgttcaagtc	caagttcagt	gatcagacag	tgatcaaaat	600
gtgccagaga	gagagttggg	tcctgagaga	aaggaaggtt	gtggtaattg	acacccctga	660
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<210> 661
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 661						
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gggcgggggg	cgttggcagc	tctccgacag	agtggaggga	gggtcccca	cgctgggctt	180
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<210> 662
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<400> 662						
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gtaaaatgca	ggggaaaaaa	agtcacaaga	agtataaaga	ttggatgctt	cttgtgcttc	180
tttttgtaaa	atacagatga	tcctcaagaa	gtaacttgag	cagattttct	actggctttc	240
aaattgataa	ccctacaccc	cctataaatt	tttacattcc	ttaacagagc	taaccatagg	300
aacttccaaa	taattttctca	gtggaaatga	gtcttcaaaa	tcacacatgg	ctcataagag	360
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ttaaccagat	agacttacta	tagggtggtg	gttccccact	aaaagatact	tttctcttgc	480

ttagtagtca	ccttcctgtg	ttctagagct	tccctatgct	tttaaaatat	gcattattac	540
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cctgtggtgt	accatcaacc	ttacaatgga	gacagagaga	aagtactccc	cctaacctat	720
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acaaaaatat	ataattgagc	attttacata	atgcatacat	tcttaatatc	tgtaggtaag	840
ataaacaaca	gaaggcaaaa	gcagatatgc	tgtattgctt	ctttggcaac	tcaccaatat	900
catcccctgc	agaaacagag	tttttttttt	ttttttttta	aatccatggt	cttaaaataa	960
ttgtccctta	gtataaacaa	aataatttagc	aataatacag	tagacggatt	cttcaaattc	1020
acaacaattt	ataatacttt	ataccacaag	ggtaaactag	taagctgctt	tctaaaatta	1080
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<210> 663
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 663						
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caacaacaaa	aaaaaa					556

<210> 664
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 664						
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cgtcacctt	ccc					373

<210> 665

<211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n = a,t,c or g

<400> 665
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 gcgatgatgt actgtctctt ttggaaaagc tcttgatccc caatgcttca catgcataga 360
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<210> 666
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 666
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 gggagaggac gagattagcc cacaactga ataagtcagt atcaaagaag ttgctgtcac 180
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 cttacggcag ggtacattgg gaaagggtgta cttaggtaag aaagtctcag gctctgatgc 300
 taagcagctg tatgccatga aggtattgac gag 333

<210> 667
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<400> 667
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<210> 668
 <211> 1156
 <212> DNA
 <213> Homo sapiens

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<400> 668
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gaataaagcc aaatggctag aaatgtatgg ggttgatatg catgtggtca aggctagaga 480
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aaccttggtg gttgtagaag atgatgatca gggcaagaa caggaacata catttgtctt 660
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<210> 669
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 669
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 aatttaaatt tctctttact ggacattgtc ttccacctcc cagagcattt cttggaaaat 180
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 ctgtagtccc agctactccg gaggtctagg caggagaatg gcttgagcct gggaggcgga 480
 ggttgctgtg agccgagatc gcacctttgc actctagcct gggcaacaag agcgagact 539

<210> 670
 <211> 682
 <212> DNA
 <213> Homo sapiens

<400> 670
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<210> 671
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 671

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<210> 672
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<400> 672						
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<210> 673
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 673						
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<210> 674
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 674						
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ttcactctct	tctccaacct	ctcttgctgt	tgctccaccc	ttcaatctct	cccttcctta	240
atthtgggtc	ctttcccttt	ctggtagaga	cagaagagac	gtgttttata	cataaactca	300
aaactccagc	gctgggtcact	ccagacagtc	ttccgttggg	gtttaatcac	tgtggggatg	360
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<210> 675
 <211> 1423
 <212> DNA
 <213> Homo sapiens

<400> 675						
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 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 676						
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<210> 677
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<400> 677						
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<210> 678
 <211> 1289
 <212> DNA
 <213> Homo sapiens

 <220> .
 <221> misc_feature
 <222> (1)...(1289)
 <223> n = a,t,c or g

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<210> 679
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 679
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ggtgaaatgg caaaggcgga tgaagtgtgc tatgatcggg aaatgaagga ttatggacca 480
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<210> 680
<211> 349
<212> DNA
<213> Homo sapiens

<400> 680
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<210> 681
<211> 329
<212> DNA
<213> Homo sapiens

<400> 681
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aacgtgaagc gaactagaaa gtaatactc 329

<210> 682
<211> 574
<212> DNA
<213> Homo sapiens

<400> 682
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<210> 683
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 683

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<210> 684
 <211> 1271
 <212> DNA
 <213> Homo sapiens

<400> 684

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<210> 685
 <211> 685
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1) ... (685)
 <223> n = a,t,c or g

<400> 685						
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<210> 686
 <211> 962
 <212> DNA
 <213> Homo sapiens

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<210> 687
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 687						
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<210> 688
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 688						
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<210> 689
 <211> 116

<212> DNA
<213> Homo sapiens

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<210> 690
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 690
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<210> 691
 <211> 1362
 <212> DNA
 <213> Homo sapiens

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<210> 692
 <211> 503
 <212> DNA
 <213> Homo sapiens

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<210> 693
 <211> 1671
 <212> DNA
 <213> Homo sapiens

<400> 693						
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<210> 694

<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = a,t,c or g

<400> 694

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<210> 695

<211> 630

<212> DNA

<213> Homo sapiens

<400> 695

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <211> 422
 <212> DNA
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<210> 700
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 700
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<210> 701
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 701

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gctgactttg	ctcgcagaggc	tgcattccaaa	accgaagtgc	atgtggaacc	tcataagaag	840
cagctacatg	tgaccctggc	ttaccacttc	caagccagcc	acctaccac	cctagagaaa	900
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gatatccgat	ttgctac					977

<210> 702
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 702

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ttagtcttct	ggaggctatg	atttttgcct	tactcccaaa	gccacggaag	aacgttgctg	180
gtgaaatagt	cctcatcaca	ggtgctggaa	gtggactcgg	aaggctctta	gccttgacgt	240
ttgcccggct	gggatctgtt	cttgttctct	gggatataca	taaggagggg	aatgaggaaa	300
catgtaagat	ggctcgggaa	gctggagcca	caagagtgca	cgcctatacc	tgcgattgca	360
gccaaaagga	aggagtgtat	agagtagccg	accagggttaa	aaaaga		406

<210> 703

<211> 987
 <212> DNA
 <213> Homo sapiens

<400> 703
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 tcaagtgtcg tatatagga acaagtattg atgttcaata tgattcaaac tattactgtt 180
 ccatagttag tggagctttt tcaatgtcca gaaagaatac tttcaatctt tatgaacagc 240
 ctaggatttt gcagttgttt ctgaaggctc aaattgtcct gcttcaaatt tttctttgaa 300
 ttttaagtag tctcttcttt tatcaaaaata ttttatccac tgttggggac aacttgattc 360
 gaaagagctt cttaacttct tgcattgaga agcatcctct aagttctcat ctaaacactt 420
 ccagtactca tcccggggccc cccagcagac ctgtctttcc ttcatagatg gggctgccat 480
 tctactgcg atgaagctct ctgcccggcc acgtccggct tcctttcgat gtcgacggga 540
 ggaaactgtc acgcaggcca ccaaccggcg gtggaggggcg cgggtgcgag tcttgccact 600
 gcagggtcgc cccgctggct caagctctag aagcgtagac ctcccagcc gcaaaaagca 660
 agtcacgcgc cgaaaccgcg gactcttttg acccttccga gctaccattt actttccata 720
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 cctcagcctg cctcccagggt agctgggact acaggcgcac aacaccatcg cttcttggat 900
 taaaagaaaa ggatgaaacg ggccccagaa agaggcgggt acgtcccaga acccatggca 960
 ggggagttgg gaaaataaat atttgta 987

<210> 704
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 704
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 tgaatcctgc tcagagaaaa ctctacagag atgtcatgct ggagaccttc aagcacctgg 180
 cctcagtaga taatgaggct cagcttaaa cagtggggtc tattttctcag caggatactt 240
 ctggagaaaa attatccctc aaacagaaaa tagaaaagtt cacaagaaag aatatatggg 300
 cctccctttt aggaaaaaat tgggaagaac atagcgtaa agacaagcac aacaccaagg 360
 agagacattt gagcagaaat ccaagggttg agagaccatg taaaagcagt aaaggtaata 420
 aacgtggaag aaccttcaga aagactcgaa attgtaatcg tcatctgcgc agg 473

<210> 705
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(435)
 <223> n = a,t,c or g

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<400> 705
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aatttcagca cgtcctggca cactgggctg tgggaggtct gtgagcaaat ggaagaacat      180
gagaggaact tgttaatgct ggaaatacaa aatcagctcc atcgaggct tcagggtctg      240
catctgcctt cctgtaatcc caccatctt tntagtgtgt atgtgggttt tttgtttgtt      300
ttgagacaaa gtcttgcttt gtcgcccagg ctggagtga gtggcacaat ctcagctcac      360
tgcaagctct gcctcccggg ttcaagcaat tctcctgcct cagcctcctc agtagctggc      420
attataggcg cgtgc

```

```

<210> 706
<211> 894
<212> DNA
<213> Homo sapiens

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```

<400> 706
gggcacgagg ttgaggcggc ggcgcgaggc agtatggttt gaagtgggtga acatggattt      60
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tgcgctcagt tccagctatt ctccagatgc tctggatttt gagacggagc acaaattgga      180
ccctgtattt gattctccac ggatgtcccg ccgtagtgtg cgctggcca cgacagcatg      240
caccctgggg gatggtgagg ctgtgggtgc cgacagcggc accagcagcg ctgtctccct      300
gaagaaccga gcggccaggc gagcacgct gcacttctc tccatctgat ctctaaccacc      360
agttaaaacc aagcttccat actttttggt ctgtaaagcc gcaccctgtc tcgagcttaa      420
ggatatgtgt gtgtatgtgc gtgtacagac acacaaacct gccatataaa gtggtagttt      480
gctgcaaata aagactgaaa ggaactctgg aatctgtgtg gcttgtctag tattgatgtt      540
ctgctgttct tgtttcaagt tctcttcgct ggtgcacgcc acgtgcagtg ccagcactca      600
ggctgtggaag ctttgtggtc ctgtgggtgg agctcagcta cagctgtcct accacatgtg      660
taaagaggaa ggaatcttac agattacaca tgctgtcgtg gacgatctcc gtgtccagtt      720
cattcttttt tctggagacg gagtctcgtc cttgtcgccc aggggtggaat gcagtggcac      780
gatctcagct cactgcctcc tctgtctccc gggttcaagc gattctactg cagcgagcct      840
cctgagtagc tgggattaca ggcgcccgc accacgcctg ggcaacagag tgag

```

```

<210> 707
<211> 410
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(410)
<223> n = a,t,c or g

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<400> 707
tttctgcagg actgtaaact ggattcctgg aacctttgat attcctggct gtgtatagtg      60

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cctgttggtg	gactgtactg	atactcaact	agagtgtgaa	gggactggat	tcctgcccct	120
gagacacaat	gcaagctgta	gtgcccttga	acaagatgac	agccatctca	ccagaacctc	180
aaactctggc	ctcgactgaa	caaaatgagg	tcccaagagt	ggttacttct	ggggaacaag	240
aagctatfff	aagaggaaat	gctgctgatg	cagagtcttt	cagacagagg	tttaggtggg	300
ttgttactc	agaagtagct	ggacccagga	aagctctgag	tcaactctgg	gagctctgca	360
atcagtggct	gagaccagac	attcacacga	aagaancaga	tttagagct		410

<210> 708
 <211> 650
 <212> DNA
 <213> Homo sapiens

<400> 708

gccgatttgc	ctgttctcac	gccccaccct	cagacctagc	cggagcaaag	tttcaacttat	60
agaagggaga	ggagcgaaca	tggcagcgcg	ttggcggttt	tgggtgtgtct	ctgtgaccat	120
ggtggtggcg	ctgctcatcg	tttgcgacgt	tccctcagcc	tctgcccata	gaaagaagga	180
gatggtgtta	tctgaaaagg	ttagtcagct	gatggaatgg	actaacaata	gacctgtaat	240
aagaatgaat	ggagacaagt	tccgtcgctt	tgtgaaagcc	ccaccgagaa	attactcgtt	300
tatcgtcatg	ttcaactgct	tccaactgca	tagacagtgt	gtcgtttgca	agtatgaact	360
ccaactacgc	tttaaaatta	aataactcat	ataacgttaa	ccatttctca	atcccagaag	420
ggccaagtta	gtgcagtagg	tacttaata	atgtgtatac	cttactcagg	atgtctatgg	480
tagcaatact	actgctcttt	tatagtcaat	tcttgattat	ccgtatcagt	gggggaagca	540
tggataaata	attgtggtag	ccatcataaa	agtaacttaa	agatcaaaca	gtcatcttat	600
aaattagtat	caacttggcg	gggcatgggg	gctcatgcct	gtaatccccg		650

<210> 709
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 709

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ccccagggtg	tagacgctgc	ggcccgggcc	ggcggtgtaa	taacagatgc	gggtgaaaga	120
tccaactaaa	gctttacctg	agaaagccaa	aagaagtaaa	aggcctactg	tacctcatga	180
tgaagactct	tcagatgata	ttgctgtagg	tttaacttgc	caacatgtaa	gtcatgctat	240
cagcgtgaat	catgtaaaga	gagcaatagc	tgagaatctg	tggtcagttt	gtcagaatgt	300
tttaaaagaa	agaagattct	atgatgggca	gctagtactt	acttctgata	tttggttgtg	360
cctcaagtgt	ggcttccagg	gatgtggtaa	aaactcagaa	agccaacatt	cattgaagca	420
ctttaagagt	tccagaacag	agcccatttg	tattataatt	aatctgagca	catggattat	480
atggtgggtat	gaatgggatg	aaaaaatttt	cacccttttg	aataaaaaag	gttg	534

<210> 710
 <211> 478
 <212> DNA

<213> Homo sapiens

<400> 710

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cctctaggaa	cttgaatgag	gacaggaggg	tcagagggag	agcctaggag	gctgagccaa	120
ggagcgtgga	gaggagagac	aggggtgaagg	tggcggctgg	ctttctggaa	gcagggtggcc	180
tttgggtgcg	tcagcattcg	tgccagcccc	ctcttctctg	atcctctcca	tgtgtctctc	240
tcctggaatc	ccagaagctg	cccctgactc	cccattaact	gcctctgccc	ctacccccta	300
ggtgatgctt	ctgggagaca	caggcgtcgg	caaaacatgt	ttcctgatcc	aattcaaaga	360
cggggccttc	ctgtccggaa	ccttcatagc	caccgtcggc	atagacttca	gggtgaggtg	420
gctgcaggca	cttgcttcca	gcagagagcc	agggctgtgg	ctcaggcatg	gggggggt	478

<210> 711

<211> 585

<212> DNA

<213> Homo sapiens

<400> 711

cttctacccc	cggagctcag	ctgatcttcc	cttcagact	acgaggtgtg	aatttcaaac	60
ttccgtaatg	gagtttagccc	acagtttatt	gctaaatgaa	gaagctttgg	ctcaaatac	120
cgaagcaaaa	agaccagttt	tcattcttga	atgggtgcga	tttcttgata	aagtcttggg	180
tgtgccaac	aaggatggg	attgctcttt	tttcccagtt	gcattaacgt	gaagagatta	240
tgtggtcatg	attcttaaga	aaacacatgt	tatgttttgg	aaggtttatg	ggtcacttat	300
ggaacttgag	agtattacac	gaatgggaaa	tttagtggca	aaactcaaac	ctcgtttaaa	360
tccagctcat	tgcttatctt	ctttatgttt	gtacctgggc	agctcattgt	aactggagaa	420
aaacatggct	atatgactgg	tgtcacttta	aatttatcat	cgtcaccctg	tgcaagtgat	480
ctctctatgc	tgcttaacaa	tcccagtgtc	ttcacttata	tctttgagga	gtcaataata	540
ggctcttttt	tttttaattc	gttttttctt	cctgcatagc	cttgt		585

<210> 712

<211> 391

<212> DNA

<213> Homo sapiens

<400> 712

acaaacagag	aactgggtttt	gacagtgttt	ctagagtgtc	ttttattatt	ttcctgacag	60
ttgcgttcca	ccatgattac	tttctccttc	agcgaatagg	ctaaatgaat	atgaaacaga	120
aaagcgtgta	tcagcaaacc	aaagcacttc	tgtgcaagaa	ttttcttaag	aaatggagga	180
tgaaaagaga	gagcttattg	gaatggggcc	tctcaatact	tctaggactg	tgtattgctc	240
tgttttccag	ttccatgaga	aatgtccagt	ttcctggaat	ggctcctcag	aatctgggaa	300
gggtagataa	atttaatagc	tcttctttta	tggttgtgta	tacaccaata	tctaatttaa	360
cccagcagat	aatgaataaa	acagcacttg	c			391

<210> 713
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 713
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 gaccctccta gtgcacaact tggccgggct cactgggctc ctgcaccact gcctgtcagg 120
 tccgctgcca gcccgaagcc cccaccagc catgagctcc tccagaaagg accacctcgg 180
 cgccagcagc tcagagcccc tcccggatcat cattgtgggt aacggccccct ctggtatctg 240
 cctgtcctac ctgctctccg gctacacacc ctacacgaag ccagatgcca tccaccacaca 300
 cccctgtctg cagaggaagc tcaccgaggc cccgggggctc tccatcctgg accaggacct 360
 ggactacctg tccgaaggcc tcgaaggccg atcccaaagc cccgtggccc tgctctttga 420
 tgcccttcta cgccagaca cagactttgg gggaaacatg aagtcggtcc tcacctggaa 480
 gcaccggaag gagcacgcca tccccacgt ggttctgggc cgga 524

<210> 714
 <211> 2468
 <212> DNA
 <213> Homo sapiens

<400> 714
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 ggaagtagag cccgggaccg ccaggccacc accggccgco tcagccatgg acgcgtccct 120
 ggagaagata gcagaccccc cgtagctga aatgggaaaa aacttgaagg aggcagtga 180
 gatgctggag gacagtcaga gaagaacaga agaggaaaat ggaaagaagc tcatatccgg 240
 agatattcca ggccactcc agggcagtg gcaagatatg gtgagcatcc tccagttagt 300
 tcagaatctc atgcatggag atgaagatga ggagccccag agccccagaa tccaaaatat 360
 tggagaacaa ggtcatatgg cttgttggg acatagtctg ggagcttata tttcaactct 420
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 cttcaatgtg ttatataaca agaagcctgt catatatott agtgcctgtg ctagacctgg 660
 cctgggccaac tacctttgta atcagctcgg cttgcccttc ccctgcttgt gccgtgtacc 720
 ctgtaacact gtgtttggat cccagcatca gatggatggt gccttcctgg agaaactgat 780
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 cagatcatg gatctggaag ctgagggcac gtgtttgcgg ttcagccctt tgatgaccgc 1500
 agcaggtaaa ccaggcttgg tggacatccc ttgcttttgt tctggggctg ctgggtagat 1560
 tagcttgccc ttatgatact ccattctcct agagtatta gcagctcttt ttggaggggc 1620

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attttctttt cttttgggct aaatttaggt agatttagcat tcccatgtaa cttaccagaa 1680
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cccagcacct tgggaggcca aggcaggcag atcatctgag gtcaggagtt cgagaccagc 1800
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gtccacagcc cccacacaga ctgaggggc ccccatctcc tgttctgaac ccaacagggt 1920
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gaaggatcgc ctgagcccag gattttgaaa ccacctggg caacacagtg agaccccgta 2160
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aatacatata taattaataa ataaaacatc aaagaccagc cgacctaaact ccatctaaaa 2400
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cactagca . 2468

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<210> 715
<211> 924
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(924)
<223> n = a,t,c or g

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<400> 715
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atgaacttgc tcacaacatc cgcgcgcact gtgacttgca gtcatcatcc attaccacaa 180
aattagttag aggatggcta ctgatatccc tccacacatg atcatcagta tttgcctcct 240
gtgtcccaac cggcctgagt caagggttacg actcactgat taaaaagagg gactttttca 300
aatactttgc acttttgatt gtgtattatg gataccaagg aagagaagaa ggaacggaaa 360
caaagttatt ttgctcgact gaaaaagaaa aaacaagcca acaaaaatgc agagacagcc 420
tcagctgtag ctacaaggac tcatactggg aaggaagata ataatacagt agtttttagag 480
ccagacaagt gcaacattgc tgtggaagag gaatatatga ctgatgagaa aaaaaagaga 540
aaaagtaatc agttaagga gatcaggcgt acagaactaa agagatatta tagtattgat 600
gacaatcaaa acaaaacaca tgataaaaaa gagaagaaga tggtggttca gaagcccat 660
gggactatgg aatacactgc tggaaaccag gacaccctaa actccatagc actgaaattt 720
aacatcactc ccaataaatt ggtggaactg aataaaacttt tcacacatac tattgttcca 780
ggccagggtc tttttgtgcc agatgccaac tctccttcca gtaccttaag gctatcatca 840
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```

<210> 716
<211> 679
<212> DNA
<213> Homo sapiens

```

```

<400> 716
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ccttcggggt ggtgggagag aagcagctcc cgcaggagat tattttcctg gtctggtcgc    180
ccaagcggga tctcattgct ttggccaaca cagctggcga ggttttactt catcgactgg    240
caagttttca tcgagtttg agttttccac caaatgaaaa tacaggaaag gaggtgacgt    300
gtctggcatg gagaccagat ggcaaacttt tggcctttgc tcttgctgat accaagaaaa    360
ttgttttggt tgatgtagaa aaacctgaga gcttacctc ttttctgtg gaggtccag    420
tttctgtat gcattggatg gaagtgacag tagaaagcag tgttctcaca tcattttata    480
atgctgagga tgaatcaaat cttctcttac ctaaactacc tacactgcca aaaaactata    540
gcaacacctc aaaaatattt agtgaagaaa attctgatga aattattaag ctcttgggag    600
acgtcagggt taatattctc gtccttggag gaagctctgg atttattgag ctttatgctt    660
atggaatggt taaaattgc
679

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```

<210> 717
<211> 821
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = a,t,c or g

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<400> 717
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actcctgaaa gcggcgcaac tcaattactt gatecttata tgccccacgc gggactcata    180
ctacgtttcc cgtgaacacg tgcagtcaca accccgcccc tgatatttat ctcagtggac    240
ggtggccgga aaaggacaat ggtttccatg tcagcggata aacgctctcc cctcggctcc    300
cggacgcgac ggaggtcgta gtagtagtga gtacgtgctg aggagcaaag gagtaaccac    360
gagatccagt gaccgacaga gcaagagcca tgccgcgccc gggcctggtg gctgggccag    420
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actggtttga tccaaagacc agagacgtga gttatgctgg aacctgggat tgtgggtaga    660
ggaaatggag agcggggatg ggaaggaaa ggcgaggcta gccagagcct aatggctgct    720
ctgacaccct cgccccaac cctcctttaa agatccgcaa gcacgaattc caccacatgg    780
nataagggtc gtcaatgnnn nnnnaagggg natcaanccc c
821

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<210> 718
<211> 480
<212> DNA
<213> Homo sapiens

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<400> 718
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ctcgggtgcgt ctcgcgtgct ccttccccctt atccctggga ggtccaagtg gtcccgcggc 120
agcttctgtt gctctgggac ctgcaggtec cggaaggtec ttagggagga cccagacac 180
cggagactgg gaaatggatt cagtgtcatt tgaagatgtg gctgtggcct ttactcagga 240
ggagtgggct ttgctggatc cttctcaaaa gaatctctac agagatgtga tgcaagaaat 300
cttcaggaac ctggcttctg taggaaacaa atcagaagac cagaatatcc aagatgactt 360
caaaaatcct gggagaaatc taagcagtca tgtggtagag agactgtttg aaattaaaga 420
aggcagtcaa tatggagaaa ccttcagcca ggattcaaat ttgaatctga ataagatagt 480

```

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<210> 719
<211> 467
<212> DNA
<213> Homo sapiens

```

```

<400> 719
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gaatggctga ggagatggag tcgtcgctcg aggcaagctt ttcgtccagc ggggcagtgt 120
cagggggcctc aggggtttttg cctcctgccc gctccgcgat cttcaagata atcgtgatcg 180
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accgcaccga ggccacgata ggggtggatt tccgagaacg agcgggtggag attgatgggg 300
agcgcatcaa gatccagcta tgggacacag caggacaaga acgattcaga aagagcatgg 360
ttcagcacta ctacagaaat gtacatgctg ttgtcttcgt gtatgatatg accaacaatgg 420
ctagttttca tagcctacca tcttggatag aagaatgcaa acaacat 467

```

```

<210> 720
<211> 490
<212> DNA
<213> Homo sapiens

```

```

<400> 720
tggcaccgat ccgagattcc cggatcgacg atttcgtcgg agccccgagg ggccggagct 60
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gagtctgatg ttctgcattt ccagtttgaa cagcaaggag atgtggtctt gcagaaaatg 180
aatcttttga gacagcagaa tttattttgt gatgtatcaa tttacattaa tgacactgag 240
ttccaggggc acaaggatgat tttggctgct tgctccactt ttatgagaga tcagttttta 300
ctcacacagt caaaacatgt cagaatcacc atcttacaga gtgcagaagt tggcagaaaa 360
ttgttactgt cttgctatac tggagcactt gaagttaaaa ggaaagagct tttgaaatac 420
ttgactgctg ccagttacct tcagatgggt cacattgogg aaaagcgcac agaagctttt 480
gtcaagttct

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```

<210> 721
<211> 706
<212> DNA
<213> Homo sapiens

```


<400> 721

agaggagggtt	ggtgtggagc	acaggcagca	ccgagcctgc	cccgtgagct	gagggcctgc	60
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tttggaaagc	agcagtggcc	cccacatggc	catgctccat	gccgccccgc	cgcccggtggg	180
acagacaggc	tggcacgttg	caggtcctgg	gagcgctggc	tgtgctgtgg	ctgggctccg	240
tggctcttat	ctgcctcctg	tggcaagtgc	cccgctctcc	cacctggggc	caggtgcagc	300
ccaaggacgt	gcccagggtcc	tgggagcatg	gctccagccc	agcttgggag	cccctggaag	360
cagaggccag	gcagcagagg	gactcctgcc	agcttgtcct	tgtggaaagc	atcccccagg	420
acctgccatc	tgcagccggc	agcccctctg	cccagcctct	gggccaggcc	tggctgcagc	480
tgttgacac	tggccaggag	agcgtccacg	tggcttcata	ctactggtcc	ctcacagggc	540
ctgacatcgg	ggtcaacgac	tcgtcttccc	agctgggaga	ggctcttctg	cagaagctgc	600
agcagctgct	gggcaggaac	atttcctctg	ctgtggccac	cagcagcccc	acactggcca	660
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<210> 722

<211> 677

<212> DNA

<213> Homo sapiens

<400> 722

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gcgtggaaga	cctcgcccg	ctccccttct	gggccgcggc	tccgcttaag	tgaaggcctg	180
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tagtgcgctg	gcgtcaatgc	tcccttcctc	gggccattgg	agactccggt	gctttttaat	300
ggcggcagcg	gctgctgggt	gagcagctgg	aggccggaca	gtgttcgtcc	catccggaga	360
ggatcgcttt	ctcctggcgt	caccagcgct	gggttggtgg	gggtagcttt	tccctctttg	420
ctcctccatt	cttgaagaaa	gaagaagatg	ccactgccat	ttgggttgaa	actgaaacgc	480
acccggcgct	acacggtgtc	cagcaagagt	tgcttggttg	cccggatcca	actgcttaat	540
aacgagtttg	tggagtccac	cctgtccgtg	gagagcactg	gccaggaaag	cctcgaggcc	600
gtggcccaga	ggctggagct	gcgggagggtc	acttacttca	gcctctggta	ctacaacaag	660
caaaatcagc	gccggtg					677

<210> 723

<211> 600

<212> DNA

<213> Homo sapiens

<400> 723

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ctaccagcaa	ttttgagaa	ttgcaaaaac	agcttgcaag	gaaaatgaag	cttcctatct	180
tcatagcaga	tgcattcaca	gcaagagcat	ttcgtgggaa	tcctgctgct	gtttgctccc	240
tagaaaatga	attggatgaa	gacatgcac	agaaaattgc	aaggagagatg	aacctctctg	300

aaactgcttt	tatccgaaaa	ctgcacccga	cagacaactt	tgcacaaagt	tcctgctttg	360
gactgagatg	gtttacacca	gcgagtgagg	tcccactctg	tggccatgcc	accctggctt	420
ctgcagctgt	gctgtttcac	aaaataaaaa	acatgaatag	cacgctcacg	ttgtgcactc	480
tgagtggaga	actaagggcc	agacgagcag	aggacggcat	cgctctggac	ttgcctcttt	540
atccagccca	ccccaggac	ttccatgaag	tagaggactt	gataaagact	gccataggca	600

<210> 724
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 724						
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ctaggaaaca	agcaattttg	ttccttcaaa	ataagaacca	agactcagag	cttctgccga	180
aatgaatata	gcctgactgg	actgtgtaat	cggtcatcct	gtcccctggc	aaatagtcag	240
tatgccacta	ttaaagaaga	gaaaggacag	tgctacttgt	atatgaagg	tatagaacga	300
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ctggagcaaa	tagatgaaaa	tctgatttac	tggccccgtt	tcattcgaca	caaagtgaag	420
cagagattca	ccaagatcac	ccaataccta	attcgaatta	gaaaacttac	actaaagcga	480
cagaggaaac	ttgttccttt	gagtaagaag	gtggagcgta	gggagaaaag		530

<210> 725
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 725						
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tgcgccctcc	tcgcaaaaca	aggtgagtga	ctcgcgggag	caatgggagc	tgtttcaggc	180
cgcgaaagcg	acattggtgg	atcccagcgc	tgtgtgtatt	gcggggaggg	acacctgtgg	240
caccgttaag	ggcgagtctt	gatctgaaga	tccgagaact	tccaaaagaa	actgacgttg	300
ggtcagagag	agttgttgag	taaaagttgg	tgaagcgaag	agggttcttc	agacaggaaa	360
aagtacgtac	aagggccctg	ggacaagaga	gcattgttctg	tcagagtcac	aaacacaagt	420
ggtccttt						428

<210> 726
 <211> 859
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(859)

<223> n = a,t,c or g

<400> 726

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gcccccttgc	agcagttctt	tgtagtgtg	gagcactgcc	tcaaacatgg	gctgaaagtt	240
aagaagagtt	ttattggcca	aaataaatca	ttctttggtc	ctttggagct	ggtggagaaa	300
ctttgtccag	aagcatcaga	tatagcgact	agtgtcagaa	atcttccaga	attaaaagaca	360
gctgtgggaa	gaggccgagc	gtggctttat	cttgcaactca	tgcaaaagaa	actggcagat	420
tatctgaaag	tgcttataga	caataaacat	ctcttaagcg	agttctatga	gcctgaggct	480
ttaatgatgg	aggaagaagg	gatggtgatt	gttggctctgc	tggtgggact	caatgttctc	540
gatgccaatc	tctggcttga	aaggagaaga	cttggattct	caggttggag	taatagattt	600
ttccctctac	cttaaggatg	tgaggatct	tgatgggtggc	aaggagcatg	aaagaattac	660
tgatgtcctt	gatcaaaaaa	attatgtgga	agaacttaac	cggcacttga	gctgcacagt	720
tggggatctt	caaaccaaga	tagatggctt	ggaaaagact	aactcaaagc	ttcaagaang	780
agtttcagct	gcaacagacc	gaatttgctc	acttcaagaa	gaacagcagc	agttaagaga	840
acaaaatgaa	ttaattcga					859

<210> 727

<211> 450

<212> DNA

<213> Homo sapiens

<400> 727

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tccctaaccg	ggtgttccac	cggcgcctgc	cgaggcctag	gcctccgcag	ccgcctcccg	180
tctcctcagc	ccgcagcgtg	cgcccgcttt	gtgctcattt	ttctctgggg	aaactgaggc	240
tccgagtgcg	aaagtccagc	gaggtcgccc	cgcccgaggc	agagaagggc	tgggggtcgg	300
ctgagccgcg	gcattcccg	gccccgctag	ggctgcaggg	tctcaggatg	gcagcctcgg	360
cgcaggtgtc	tgtgacctt	gaggatgtgg	ctgtgacatt	caccagggag	gagtggggac	420
agttggatgc	agcccagaga	accttgtatc				450

<210> 728

<211> 439

<212> DNA

<213> Homo sapiens

<400> 728

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accagcccga	gagggacctg	gtgcctgtac	ccaggcttct	gtcgtctgt	cgctgcgct	120
atgccctgct	gtagtcacag	gagctgtaga	gaggacccc	gtacatctga	aagccgggaa	180

atggacccag	tgggtctttga	ggatgtggct	gtgaacttca	cccaggaaga	gtggacattg	240
ctggatattt	cccagaagaa	tctcttcagg	gaagtgatgc	tggaaacttt	caggaacctg	300
acctctatag	gaaaaaaatg	gagtgaccag	aacattgaat	atgagtacca	aaaccccaga	360
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ggagaaactt	ttaccagg					439

<210> 729
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 729						
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agccgtgtgt	actgcgtggg	cagcactgcc	cgacagtcct	agctaaactt	cgccaactcc	120
gctgcctttg	ccgtcaccat	gccacagaat	gaatatattg	aattacaccg	taaacgctat	180
ggattccggt	tggattacca	tgagaaaaag	agaaaagaagc	aaagtcgaga	ggctca	236

<210> 730
 <211> 807
 <212> DNA
 <213> Homo sapiens

<400> 730						
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ctgggtctca	tgccaaacaa	cttgttataa	taagagctag	gggtcccagac	catgcggaaa	120
cttcatgaga	atcctctgta	gtctggtgag	tgtagtgtcc	gactctggag	cccaggctgt	180
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tgatgctgac	tataggagat	gttattaaac	aactgattga	agcccacgag	caggggaaaag	300
acatcgatct	aaataagggtg	aaaaccaaga	cagctgcca	atatggcctt	tctgcccagc	360
ccgcctgggt	ggatatcatt	gctgccgtcc	ctcctcagta	tcgcaagggtc	ttgatgcca	420
agttaaaggc	gaaacccatc	agaactgcta	gtgggattgc	tgctgtggct	gtgatgtgca	480
aacccacacag	atgtccacac	atcagtttta	caggaaatat	atgtgtatac	tgccctgggtg	540
gacctgattc	tgattttgag	tattccaccc	agtcttacac	tggtatgag	ccaacctcca	600
tgagagctat	ccgtgccaga	tatgacctt	tcctacagac	aagacaccga	atagaacagt	660
taaaacaact	tggcatagat	gtggataaag	tggagtttat	tgagatgggt	ggaacgttta	720
tggcccttcc	agaagaatac	agagattatt	ttattcgaaa	tttacctgat	gccttatcag	780
gacatacttc	caacaatatt	tacgagg				807

<210> 731
 <211> 944
 <212> DNA
 <213> Homo sapiens

<400> 731

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gagcaccttc	cacgcccagg	gctgtggtac	aggttggtgg	gggaggggcg	ccacgcggtg	180
tttggcagga	aggggaggcc	tctctactga	ccggaagctg	cgctagaaaa	agaaggagga	240
gactgcggcg	cagcagcgac	tagtgggagt	ccgatgtggg	agaggggctg	cggccaccgc	300
caccgcccgc	gcaccagga	aggcggagga	cgcaggagcc	aagagcaagg	gacgccgcca	360
cggtcattct	cgcctgcccc	gccgccctct	tagagacact	cattgcctat	ggatcatcct	420
ctcccagctt	ttgcaagcac	cgggctgctc	gcccgtgat	tttcctcctc	cataggctca	480
ctgcggaggc	aacggcgagg	tgtccgattt	gtgcacttga	ggcccgcgat	ccgggacggt	540
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ctgcacacaa	gaagcatagg	agccgaccca	cctcccagcc	tcgggggaac	atcggtgggt	720
gcataattca	gcacggatgg	aaagatggag	atgaacctct	aacacagtgg	aaaggaaccg	780
ttctggatca	gctcctttga	ataaacctgc	ccaccaccaa	gaaccatac	atgactttct	840
tttcattgta	tcaaacgaat	gtgtccaccg	gtgtgagcac	cagcaactca	cttcttcctc	900
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<210> 732

<211> 761

<212> DNA

<213> Homo sapiens

<400> 732

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gcaccgagga	cgaggaggag	ggggcgagcc	tgggcgacgg	cagcggggcg	gaaggcgga	180
gctgcagcag	cagcaggcgg	tcgggcggcg	atggcgggga	cgaagtggag	ggcagcgggtg	240
tgggagctgg	cgaaggagag	actgtccagc	acttcccgtc	cgcgcggccc	aagtctctaa	300
tgcagaagct	ccaatgctcc	ttccagacct	cctgggtcaa	ggactttccc	tggctgcgct	360
attccaagga	tactggtctt	atgtcttgcg	gctgggtgca	aaagaccctc	gcagatgggg	420
gaagcgtgga	ccttccccca	gtggggcatg	atgagctttc	gcgagggacc	cgcaactaca	480
agaaaacctt	cctcctgagg	caccacgtct	ctaccgagca	caaactccac	gaagccaacg	540
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agaactotta	ttgctatcaa	cttctgcgac	aactaaatga	acagagaaag	aaaggatttc	660
tttgtgatgt	cagcattgtg	gtaagcggaa	aaatcttcaa	agctcataag	aacatcctgg	720
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<210> 733

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(523)

<223> n = a,t,c or g

<400> 733

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cgtagtctgc	aatacgagta	caaggcgaac	tcgaatcttg	tgctccaagc	tgaccgttct	180
ctcattgacc	ggacccgccg	ggatgaaccc	acaggagagg	tgctgtccct	tggtgggaag	240
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agaagagcca	agcgaagaaa	gcgtgatgag	gaccggcatg	acatcaacaa	gatgaagggg	360
tatactctgc	tgtcggaggg	cattgatgag	atgggtgggca	tcactacaaa	gccccaaaact	420
aaagagactc	gggagacctc	tgaggtgcta	ctcagcttca	tccaggctgc	tcttggggac	480
cagccacgtg	atatcctttg	tggggcagct	gatgaagttc	tag		523

<210> 734

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 734

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gccagactcc	catccaaaga	gtcataagca	gccttcttcc	caccttctta	catgaaatac	120
atccccacct	gaacaaaagg	acacggacag	gaggaagggg	aataggactt	cgcaaaactg	180
gacacggcat	cgcttcagat	cttgactctc	gaggttccgt	tggtactggt	ttcacagtta	240
caggcttcgg	atggtctgca	cgtgctgttt	caagactaat	ggtagtctct	attgcttctg	300
ttatgtcctt	atccaacctg	ttcagcctgt	cctctgactc	aaatatggag	taatcaatgg	360
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cagagtggcc	tttctctctg	aggcttcata	agtctctttt	cgtcacagtg	gaaatgttct	600
gaggaagggg	tgagcatttt	tctagactga	aaagaatccc	tttcttctgt	ctgtctggag	660
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cgcttttctt	gatcactgtg	gctggggacc	cgcttcgcgt	tatcatcctg	gtcgcagggt	780
gagtagaggg	cccgggagac	gctgggagagc	gtcgaagaga	gaggtgcgga	aggggctgga	840
ggaactgggg	caagcctggg	agcctgaatt	ggggacgata	agtcggaggt	gaagtttggg	900
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ccaggaacgg	atacctcgcc	cttcctgtgt	cgcacactct	ggctgtcatc	gctctgaaga	1140
ctctttaatt	agattttctc	cctttccagt	gcgttcactt	ttctacagat	gagtctcctg	1200
gtggagacag	ttacctacc	tgggtccatgt	ctccctaacc	atccggaagg	ctaacttcca	1260
cttttcaagc	agctttgggt	ggtttccctc	cttgatttct	ctggctccca	ctactattgc	1320
ttgtctcact	gccccgtat	t				1341

<210> 735

<211> 703

<212> DNA

<213> Homo sapiens

<400> 735
 tttcgtgaga ggcccaggtg aggagcaagc gcccgcgcttc cggaagcccg ctcccggggc 60
 catgggggca caggtgaggc tgccgcccgg agagccctgc cgagaaggat atgtgctgtc 120
 tctggtctgt ccaaactcct ccagggcttg gtgtgagatc acaaatgtgt cacagctgct 180
 ggcttctcct gtgctctaca cggacctgaa ttacagcata aacaacttga gcatttcagc 240
 aaatgtagaa aacaaataca gtctttatgt gggcttggta ctggcagtaa gctcaagtat 300
 ttttattggc tccagcttca tactgaaaaa gaagggcctc ttgcaactgg ccagcaaggg 360
 ctttactaga gctggacaag gtggacattc ttacctgaag gaatggctct ggtgggtagg 420
 attgctgtca atactgtcct ggaatgcaag ggaaaaagtt gacctttgaa atattacatt 480
 ttaaccacag acttcttgta ttttcttcac cataacaata gagaaaagta cttttctttc 540
 atattttccc acctccta attgaaact attgtagctg catattttct caagaaagag 600
 tacagtttcc ttgccaggac aacacggata agtgaaaggc ttctgtggct gcttggtact 660
 gaacaaatgg agaagaaatg aagggtgtca gcactctcct tcc 703

<210> 736
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 736
 tttcgtctgg cgtggacggt tgtggtgggg cgtgttggtc cgcgctctca gaactgtgct 60
 gggaaggatg gtagggcgac tggggctcac ctccgcaccg ttgtaggacc cggggtaggg 120
 ttttgagccc gtgggagctg cccacgcgg cctcgtcctg ccaacggctg gatggcgagg 180
 acgaaggacg cagcgcagat gttggtgacc ttcaaggatg tggctgtgac ctttaccggg 240
 gaggagtggg gacagctgga cctggcccag aggacctgt accgagaggt gatgctggag 300
 acctgtgggc ttctggtttc actagggcat cgggttccca aaccagagtt ggtccacctg 360
 ctaaagcatg ggcaggagct gtggatagtg aagagaggcc t 401

<210> 737
 <211> 933
 <212> DNA
 <213> Homo sapiens

<400> 737
 agcggcgcgt cgcccggtgt gtgtgtcccc ggtgtcaccc agcgtgttgt gtgtccgtgc 60
 ggcgcggcgc tcgtgtggct cctcgcgcc caccacgctg gccccggggc cccggctcgc 120
 ccttcccagg cgccggctgc agcagagttt cagaacaagc ttcttggaac ccatgaccga 180
 tgaagtcttg tcgacattta taccgtctga gggtagcagc tcgaaagtag aagaaagtgt 240
 tgccaggggc ggcagtatct ctttgtgtga ccttggcggc ttatgggacg ttggcttcag 300
 acctttgtga tacaccatgc tgcgtgggac gatgacggcg tggagaggaa tgaggcctga 360
 ggtcacactg gcttgccctc tcctagccac agcaggctgc tttgtgact tgaacgaggt 420
 ccctcaggtc accgtccagc ctgcgtccac cgtccagaag cccggaggca ctgtgatctt 480
 gggctgcgtg gtggaacctc caaggatgaa tgtaacctgg cgctgaatg gaaaggagct 540
 gaatggctcg gatgatgtc tgggtgtcct catcacccac gggaccctcg tcatcactgc 600
 ccttaacaac cacactgtgg gacggtacca gtgtgtggcc cggatgctg cgggggctgt 660
 ggccagcgtg ccagccactg tgacactagc cagtgaagtct gctcctttgc ctccctcca 720
 tggtgcggtc cctcctcatc tctcccaccc tgaagccccc accattcatg ctgcctcttg 780

ttactcttag	cataaaatgg	gccttaactg	cagaaatgtc	aaatcagaac	agtagctgcc	840
ttagtaatgc	ccagtgatgg	gggacccctt	gtgcccttgg	aaaacctcac	tccaagtaga	900
ggctgtatct	ggagtgagtg	tctacagaga	ggg			933

<210> 738
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 738						
ctgggggtcgg	cggagacagc	tgggtgtctga	agccgctcgc	gcccaggggtg	accctgtttg	60
cagcacgatg	tctgaagaag	aggcggctca	gatccccaga	tccagtgtgt	gggagcagga	120
ccagcagaac	gtgggtgcagc	gtgtgggtggc	tctgcccctg	gtcagggcca	cgtgcaccgc	180
ggtctgcgat	gtttacagtg	cagccaagga	caggcacccg	ctgctgggct	ccgcctgccg	240
cctggctgag	aactgcgtgt	gcggcctgac	caccctgtgc	ctggaccacg	cccagccgct	300
gctcgagcac	ctgcagcccc	agctggccac	tatgaacagc	ctcgccctgca	ggggcctgga	360
caagctggaa	gagaagcttc	cctttctcca	gcaaccttcg	gagacggtgg	tgacctcagc	420

<210> 739
 <211> 1248
 <212> DNA
 <213> Homo sapiens

<400> 739						
tttcgtagcg	agtaaagaag	cagatttgc	ctccctcccg	cttccctccct	cccatcttcc	60
caccggggct	gtgcccaggc	cacagagcag	ctgcaggcct	tgggagagga	cccacacagc	120
ctcctgtagg	tggcaacagt	gccacctgtt	tgactcatag	ggctgaaccg	aggactgaaa	180
aaggaggagg	gcagaccact	cggagaggag	ctgggaagca	gtgcagagag	gagagcggag	240
cggagctgcc	gctgagcaaa	ggccttcacc	atggccgagt	ccccgggctg	ctgctccgtc	300
tgggcccgc	gcctccactg	cctgtatagc	tgccactgga	ggaaatgccc	cagagagagg	360
atgcaaacca	gcaagtgcga	ctgtatctgg	tttggcctgc	tcttccctcac	cttccctcctt	420
tccctgagct	ggctgtacat	cgggctcgtc	cttctcaatg	acctgcacaa	cttcaatgaa	480
ttcctcttcc	gccgctgggg	acactggatg	gactgggtccc	tggcattcct	gctggtcac	540
tctctactgg	gcacatatgc	atccttgcta	ttggctcctgg	ccctgtcctc	gcggctttgt	600
agacagcccc	tgcatctgca	cagcctccac	aagggtgctgc	tgctcctcat	tatgctgctt	660
gtggcggtcg	gccttgtggg	actggacatc	caatggcagc	aggagaggca	tagcttgctg	720
gtgtcactgc	agactgcagg	tagctctgaa	ctccagcagt	caggccctaa	gaggaaagcg	780
gggaggggca	ctggagaaga	gccacacctca	ccagctcttg	tccacaggcc	acagcccat	840
tccttcatat	tggagcagcc	gctggaattg	ccctcctggc	ctggcctgtg	gctgatacct	900
tctaccgtat	ccaccgaaga	gagcccaaga	ttctgctact	gctcctattt	tttgaggttg	960
tcctggtcat	ctacttggcc	cccctatgca	tctcctcacc	ctgcatcatg	gaaccagag	1020
acttaccacc	caagcctggg	ctgggtgggac	accgaggggc	ccccatgctg	gctcccagaga	1080
acacctgat	gtccttgctg	aagacagctg	aatgcggagc	tactgtgttt	gagactgatg	1140
tgatggtcag	ctccgatggg	gtccccttcc	tcatgcatga	tgagcacctc	agcaggacca	1200
cgaatgtagc	ctctgtattc	ccaaccgaa	tcacagccca	cagcagtg		1248

<210> 740
 <211> 185
 <212>Amino acid
 <213> Homo sapiens

<400> 740
 Phe Val Gly Arg Leu Leu Arg Leu Gly Glu Ala Leu Arg Leu Arg Pro
 1 5 10 15
 Asp Pro Ser Gly Gly Cys Arg Leu Gln Pro Ala Leu Val Gly Glu Thr
 20 25 30
 Glu Met Ser Glu Lys Glu Asn Asn Phe Pro Pro Leu Pro Lys Phe Ile
 35 40 45
 Pro Val Lys Pro Cys Phe Tyr Gln Asn Phe Ser Asp Glu Ile Pro Val
 50 55 60
 Glu His Gln Val Leu Val Lys Arg Ile Tyr Arg Leu Trp Met Phe Tyr
 65 70 75 80
 Cys Ala Thr Leu Gly Val Asn Leu Ile Ala Cys Leu Ala Trp Trp Ile
 85 90 95
 Gly Gly Gly Ser Gly Thr Asn Phe Gly Leu Ala Phe Val Trp Leu Leu
 100 105 110
 Leu Phe Thr Pro Cys Gly Tyr Val Cys Trp Phe Arg Pro Val Tyr Lys
 115 120 125
 Ala Phe Arg Ala Asp Ser Ser Phe Asn Phe Met Ala Phe Phe Phe Ile
 130 135 140
 Phe Arg Ser Pro Val Cys Pro Asp Arg His Pro Gly Asp Trp Leu Leu
 145 150 155 160
 Arg Leu Gly Arg Val Arg Leu Ala Val Gly Asn Trp Ile Leu Pro Val
 165 170 175
 Gln Pro Gly Arg Cys Arg Gly His Ala
 180 185

<210> 741
 <211> 177
 <212>Amino acid
 <213> Homo sapiens

<400> 741
 Phe Leu Gly Ala Gly Ala Asp Ile Phe Cys Ala Tyr Leu Arg Met Ser
 1 5 10 15
 Ser Lys Gln Ala Thr Ser Pro Phe Ala Cys Ala Ala Asp Gly Glu Asp
 20 25 30
 Ala Met Thr Gln Asp Leu Thr Ser Arg Glu Lys Glu Glu Gly Ser Asp
 35 40 45
 Gln His Val Ala Ser His Leu Pro Leu His Pro Ile Met His Asn Lys
 50 55 60
 Pro His Ser Glu Glu Leu Pro Thr Leu Val Ser Thr Ile Gln Gln Asp
 65 70 75 80
 Ala Asp Trp Asp Ser Val Leu Ser Ser Gln Gln Arg Met Glu Ser Glu
 85 90 95
 Asn Asn Lys Leu Cys Ser Leu Tyr Ser Phe Arg Asn Thr Ser Thr Ser
 100 105 110
 Pro His Lys Pro Asp Glu Gly Ser Arg Asp Arg Glu Ile Met Thr Ser
 115 120 125

Val Thr Phe Gly Thr Pro Glu Arg Arg Lys Gly Ser Leu Ala Asp Val
 130 135 140
 Val Asp Thr Leu Lys Gln Lys Lys Leu Glu Glu Met Thr Arg Thr Glu
 145 150 155 160
 Gln Glu Asp Ser Ser Cys Met Glu Lys Leu Leu Ser Lys Asp Trp Lys
 165 170 175
 Glu
 177

<210> 742
 <211> 434
 <212> Amino acid
 <213> Homo sapiens

<400> 742
 Glu Gly Tyr Leu Thr Gly Arg Pro Thr Arg Pro Val Ala Val Arg Gly
 1 5 10 15
 Lys Ser Thr Ala Asp Leu Arg Met Met Gly Arg Ser Pro Gly Phe Ala
 20 25 30
 Met Gln His Ile Val Gly Val Pro His Val Leu Val Arg Arg Gly Leu
 35 40 45
 Leu Gly Arg Asp Leu Phe Met Thr Arg Thr Leu Cys Ser Pro Gly Pro
 50 55 60
 Ser Gln Pro Gly Glu Lys Arg Pro Glu Glu Val Ala Leu Gly Leu His
 65 70 75 80
 His Arg Leu Pro Ala Leu Gly Arg Ala Leu Gly His Ser Ile Gln Gln
 85 90 95
 Arg Ala Thr Ser Thr Ala Lys Thr Trp Trp Asp Arg Tyr Glu Glu Phe
 100 105 110
 Val Gly Leu Asn Glu Val Arg Glu Ala Gln Gly Lys Val Thr Glu Ala
 115 120 125
 Glu Lys Val Phe Met Val Ala Arg Gly Leu Val Arg Glu Ala Arg Glu
 130 135 140
 Asp Leu Glu Val His Gln Ala Lys Leu Lys Glu Val Arg Asp Arg Leu
 145 150 155 160
 Asp Arg Val Ser Arg Glu Asp Ser Gln Tyr Leu Glu Leu Ala Thr Leu
 165 170 175
 Glu His Arg Met Leu Gln Glu Glu Lys Arg Leu Arg Thr Ala Tyr Leu
 180 185 190
 Arg Ala Glu Asp Ser Glu Arg Glu Lys Phe Ser Leu Phe Ser Ala Ala
 195 200 205
 Val Arg Glu Ser His Glu Lys Glu Arg Thr Arg Ala Glu Arg Thr Lys
 210 215 220
 Asn Trp Ser Leu Ile Gly Ser Val Leu Gly Ala Leu Ile Gly Val Ala
 225 230 235 240
 Gly Ser Thr Tyr Val Asn Arg Val Arg Leu Gln Glu Leu Lys Ala Leu
 245 250 255
 Leu Leu Glu Ala Gln Lys Gly Pro Val Ser Leu Gln Glu Ala Ile Arg
 260 265 270
 Glu Gln Ala Ser Ser Tyr Ser Arg Gln Gln Arg Asp Leu His Asn Leu
 275 280 285
 Met Val Asp Leu Arg Gly Leu Val His Ala Ala Gly Pro Gly Gln Asp
 290 295 300
 Ser Gly Ser Gln Ala Gly Ser Pro Pro Thr Arg Asp Arg Asp Val Asp
 305 310 315 320
 Val Leu Ser Ala Ala Leu Lys Glu Gln Leu Ser His Ser Arg Gln Val
 325 330 335
 His Ser Cys Leu Glu Gly Leu Arg Glu Gln Leu Asp Gly Leu Glu Lys
 340 345 350

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Thr Cys Ser Gln Met Ala Gly Val Val Gln Leu Val Lys Ser Ala Ala
    355                      360          365
His Pro Gly Leu Val Glu Pro Ala Asp Gly Ala Met Pro Ser Phe Leu
    370                      375          380
Leu Glu Gln Gly Ser Met Ile Leu Ala Leu Ser Asp Thr Glu Gln Arg
    385                      390          395          400
Leu Glu Ala Gln Val Asn Arg Asn Thr Ile Tyr Ser Thr Leu Val Thr
    405                      410          415
Cys Val Thr Phe Val Ala Thr Leu Pro Val Leu Tyr Met Leu Phe Lys
    420                      425          430
Ala Ser
    434

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<210> 743
<211> 211
<212>Amino acid
<213> Homo sapiens

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<400> 743
Asn Leu Pro Pro Leu Thr Pro Gln Pro Gly Pro Arg Leu Ala Gly Ser
  1                      5                      10          15
Gly Pro Ser His Trp Phe Ser Pro Leu Ser Leu Pro Val Ala Ser Lys
    20                      25          30
Ala Pro Gly Thr Met Ala Gln Ala Leu Gly Glu Asp Leu Val Gln Pro
    35                      40          45
Pro Glu Leu Gln Asp Asp Ser Ser Ser Leu Gly Ser Asp Ser Glu Leu
    50                      55          60
Ser Gly Pro Gly Pro Tyr Arg Gln Ala Asp Arg Tyr Gly Phe Ile Gly
    65                      70          75          80
Gly Ser Ser Ala Glu Pro Gly Pro Gly His Pro Pro Ala Asp Leu Ile
    85                      90          95
Arg Gln Arg Glu Met Lys Trp Val Glu Met Thr Ser His Trp Glu Lys
    100                     105          110
Thr Met Ser Arg Arg Tyr Lys Lys Val Lys Met Gln Cys Arg Lys Gly
    115                     120          125
Ile Pro Ser Ala Leu Arg Ala Arg Cys Trp Pro Leu Leu Cys Gly Ala
    130                     135          140
His Val Cys Gln Lys Asn Ser Pro Gly Thr Tyr Gln Glu Leu Ala Glu
    145                     150          155          160
Ala Pro Gly Asp Pro Gln Trp Met Glu Thr Ile Gly Arg Asp Leu His
    165                     170          175
Arg Gln Phe Pro Leu His Glu Met Phe Val Ser Pro Gln Gly His Gly
    180                     185          190
Gln Gln Gly Leu Leu Gln Val Leu Lys Ala Tyr Thr Leu Tyr Arg Pro
    195                     200          205
Glu Gln Gly
    210 211

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<210> 744
<211> 55
<212>Amino acid
<213> Homo sapiens

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<400> 744

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Leu Arg Gly Met Ala Ala Ala Ala Ala Gly Pro Ala Ala Ser Gln Arg
 1           5           10           15
Phe Phe Gln Ser Phe Ser Asp Ala Leu Ile Asp Gln Asp Pro Gln Ala
           20           25           30
Ala Leu Glu Val Gly Glu Pro Phe Leu Leu Pro Pro Leu Pro Ala Asp
           35           40           45
Pro Pro Pro Ser Ser Thr Ala
           50           55

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<210> 745
<211> 182
<212>Amino acid
<213> Homo sapiens

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```

<400> 745
Trp Ala Cys Phe Arg Ser Ala His Cys Ser Arg His Leu Arg Asn Arg
 1           5           10           15
Ile Phe Met Tyr Leu Tyr Trp Asp Lys Thr Arg Ser Pro Val Cys Lys
           20           25           30
Gly Pro Ala Leu Arg Glu Glu Arg Pro Gln Pro Arg Leu Lys Leu Glu
           35           40           45
Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu His Leu Asn Pro Asp Gln
           50           55           60
Leu Glu Ala Val Glu Lys Tyr Glu Glu Val Leu His Asn Leu Glu Phe
           65           70           75           80
Ala Lys Glu Leu Gln Lys Thr Phe Ser Gly Leu Ser Leu Asp Leu Leu
           85           90           95
Lys Ala Gln Lys Lys Ala Gln Arg Arg Glu His Met Leu Lys Leu Glu
           100          105          110
Ala Glu Lys Lys Lys Leu Arg Thr Ile Leu Gln Val Gln Tyr Val Leu
           115          120          125
Gln Asn Leu Thr Gln Glu His Val Gln Lys Asp Phe Lys Gly Gly Leu
           130          135          140
Asn Gly Ala Val Tyr Leu Pro Ser Lys Glu Leu Asp Tyr Leu Ile Lys
           145          150          155          160
Phe Ser Lys Leu Thr Cys Pro Glu Arg Asn Glu Ser Leu Arg Gln Thr
           165          170          175
Leu Glu Gly Ser Thr Val
           180          182

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<210> 746
<211> 136
<212>Amino acid
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(136)
<223> X = any amino acid or stop code

```

```

<400> 746
Xaa Ala Gly Val Gln Met Lys Leu Glu Phe Leu Gln Arg Lys Phe Trp
 1           5           10           15
Ala Ala Thr Arg Gln Cys Ser Thr Val Asp Gly Pro Cys Thr Gln Ser

```

```

      20      25      30
Cys Glu Asp Ser Asp Leu Asp Cys Phe Val Ile Asp Asn Asn Gly Phe
   35      40      45
Ile Leu Ile Ser Lys Arg Ser Arg Glu Thr Gly Arg Phe Leu Gly Glu
   50      55      60
Val Asp Gly Ala Val Leu Thr Gln Leu Leu Ser Met Gly Val Phe Ser
   65      70      75      80
Gln Val Thr Met Tyr Asp Tyr Gln Ala Met Cys Lys Pro Ser Ser His
      85      90      95
His His Ser Ala Gln Pro Leu Val Ser Pro Ile Ser Ala Phe Leu
      100      105      110
Thr Ala Thr Arg Trp Leu Leu Gln Glu Leu Val Leu Phe Leu Leu Glu
      115      120      125
Trp Ser Val Trp Gly Ser Xaa *
   130      135

```

<210> 747
 <211> 156
 <212> Amino acid
 <213> Homo sapiens

```

<400> 747
Cys Arg Gly Arg Leu Ala Gln Leu Glu Glu Ala Ala Val Ala Ala Thr
  1      5      10      15
Met Ser Ala Gly Asp Ala Val Cys Thr Gly Trp Leu Val Lys Ser Pro
      20      25      30
Pro Glu Arg Lys Leu Gln Arg Tyr Ala Trp Arg Lys Arg Trp Phe Val
      35      40      45
Leu Arg Arg Gly Arg Met Ser Gly Asn Pro Asp Val Leu Glu Tyr Tyr
      50      55      60
Arg Asn Lys His Ser Ser Lys Pro Ile Arg Val Ile Asp Leu Ser Glu
      65      70      75      80
Cys Ala Val Trp Lys His Val Gly Pro Ser Phe Val Arg Lys Glu Phe
      85      90      95
Gln Asn Asn Phe Val Phe Ile Val Lys Thr Thr Ser Arg Thr Phe Tyr
      100      105      110
Leu Val Ala Lys Thr Glu Gln Glu Met Gln Val Trp Val His Ser Ile
      115      120      125
Ser Gln Val Cys Asn Leu Gly His Leu Glu Asp Gly Ala Ala Asp Ser
      130      135      140
Met Glu Ser Leu Ser Tyr Thr Arg Ser Tyr Leu Gln
      145      150      155 156

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<210> 748
 <211> 55
 <212> Amino acid
 <213> Homo sapiens

```

<400> 748
Ile Pro Ala Val Pro Leu Thr Ser Cys Val Thr Val Gly Ser Tyr Ser
  1      5      10      15
Leu Ser Val Arg Asp Tyr Asp Pro Arg Gln Gly Asp Thr Val Lys His
      20      25      30
Tyr Lys Ile Arg Thr Leu Asp Lys Arg Gly Phe Tyr Ile Ser Pro Arg

```

35 40 45
 Ser Thr Phe Ser Thr Leu Gln
 50 55

<210> 749
 <211> 381
 <212> Amino acid
 <213> Homo sapiens

<400> 749
 Lys Asp Ser Val Leu Asn Ile Ala Arg Gly Lys Lys Tyr Gly Glu Lys
 1 5 10 15
 Thr Lys Arg Val Ser Ser Arg Lys Lys Pro Ala Leu Lys Cys Thr Ser
 20 25 30
 Gln Lys Gln Pro Ala Leu Lys Ala Ile Cys Asp Lys Glu Asp Ser Val
 35 40 45
 Pro Asn Thr Ala Thr Glu Lys Lys Asp Glu Gln Ile Ser Gly Thr Val
 50 55 60
 Ser Ser Gln Lys Gln Pro Ala Leu Lys Ala Thr Ser Asp Lys Lys Asp
 65 70 75 80
 Ser Val Ser Asn Ile Pro Thr Glu Ile Lys Asp Gly Gln Gln Ser Gly
 85 90 95
 Thr Val Ser Ser Gln Lys Gln Pro Ala Trp Lys Ala Thr Ser Val Lys
 100 105 110
 Lys Asp Ser Val Ser Asn Ile Ala Thr Glu Ile Lys Asp Gly Gln Ile
 115 120 125
 Arg Gly Thr Val Ser Ser Gln Arg Gln Pro Ala Leu Lys Ala Thr Gly
 130 135 140
 Asp Glu Lys Asp Ser Val Ser Asn Ile Ala Arg Glu Ile Lys Asp Gly
 145 150 155 160
 Glu Lys Ser Gly Thr Val Ser Pro Gln Lys Gln Ser Ala Gln Lys Val
 165 170 175
 Ile Phe Lys Lys Lys Val Ser Leu Leu Asn Ile Ala Thr Arg Ile Thr
 180 185 190
 Gly Gly Trp Lys Ser Gly Thr Glu Tyr Pro Glu Asn Leu Pro Thr Leu
 195 200 205
 Lys Ala Thr Ile Glu Asn Lys Asn Ser Val Leu Asn Thr Ala Thr Lys
 210 215 220
 Met Lys Asp Val Gln Thr Ser Thr Pro Glu Gln Asp Leu Glu Met Ala
 225 230 235 240
 Ser Glu Gly Glu Gln Lys Arg Leu Glu Glu Tyr Glu Asn Asn Gln Pro
 245 250 255
 Gln Val Lys Asn Gln Ile His Ser Arg Asp Asp Leu Asp Asp Ile Ile
 260 265 270
 Gln Ser Ser Gln Thr Val Ser Glu Asp Gly Asp Ser Leu Cys Cys Asn
 275 280 285
 Cys Lys Asn Val Ile Leu Leu Ile Asp Gln His Glu Met Lys Cys Lys
 290 295 300
 Asp Cys Val His Leu Leu Lys Ile Lys Lys Thr Phe Cys Leu Cys Lys
 305 310 315 320
 Arg Leu Thr Glu Leu Lys Asp Asn His Cys Glu Gln Leu Arg Val Lys
 325 330 335
 Ile Arg Lys Leu Lys Asn Lys Ala Ser Val Leu Gln Lys Arg Leu Ser
 340 345 350
 Glu Lys Glu Glu Ile Lys Ser Gln Leu Lys His Glu Thr Leu Glu Leu
 355 360 365
 Glu Lys Glu Leu Cys Ser Leu Arg Phe Ala Ile Gln Gln
 370 375 380 381

<210> 750
 <211> 296
 <212>Amino acid
 <213> Homo sapiens

<400> 750
 Ser Pro Leu Arg Tyr Arg Ala Gly Gln Ser Gly Ser Thr Ile Ser Ser
 1 5 10 15
 Ser Ser Cys Ala Met Trp Arg Cys Gly Gly Arg Gln Gly Leu Cys Val
 20 25 30
 Leu Arg Arg Leu Ser Gly Gly His Ala His Arg Ala Trp Arg Trp
 35 40 45
 Asn Ser Asn Arg Ala Cys Glu Arg Ala Leu Gln Tyr Lys Leu Gly Asp
 50 55 60
 Lys Ile His Gly Phe Thr Val Asn Gln Val Thr Ser Val Pro Glu Leu
 65 70 75 80
 Phe Leu Thr Ala Val Lys Leu Thr His Asp Asp Thr Gly Ala Arg Tyr
 85 90 95
 Leu His Leu Ala Arg Glu Asp Thr Asn Asn Leu Phe Ser Val Gln Phe
 100 105 110
 Arg Thr Thr Pro Met Asp Ser Thr Gly Val Pro His Ile Leu Glu His
 115 120 125
 Thr Val Leu Cys Gly Ser Gln Lys Tyr Pro Cys Arg Asp Pro Phe Phe
 130 135 140
 Lys Met Leu Asn Arg Ser Leu Ser Thr Phe Met Asn Ala Phe Thr Ala
 145 150 155 160
 Ser Asp Tyr Thr Leu Tyr Pro Phe Ser Thr Gln Asn Pro Lys Asp Phe
 165 170 175
 Gln Asn Leu Leu Ser Val Tyr Leu Asp Ala Thr Phe Phe Pro Cys Leu
 180 185 190
 Arg Glu Leu Asp Phe Trp Gln Glu Gly Trp Arg Leu Glu His Glu Asn
 195 200 205
 Pro Ser Asp Pro Gln Thr Pro Leu Val Phe Lys Gly Val Val Phe Asn
 210 215 220
 Glu Met Lys Gly Ala Phe Thr Asp Asn Glu Arg Ile Phe Ser Gln His
 225 230 235 240
 Leu Gln Asn Arg Leu Leu Pro Asp His Thr Tyr Ser Val Val Ser Gly
 245 250 255
 Gly Asp Pro Leu Cys Ile Pro Glu Leu Thr Trp Glu Gln Leu Lys Gln
 260 265 270
 Phe His Ala Thr His Tyr His Pro Ser Asn Ala Arg Phe Phe Thr Tyr
 275 280 285
 Gly Asn Phe Pro Leu Asp Gln His
 290 295 296

<210> 751
 <211> 163
 <212>Amino acid
 <213> Homo sapiens

<400> 751
 Arg Gly Ala Lys Ala Lys Ser Ala Val Leu Pro Pro Gly Pro Pro Cys
 1 5 10 15
 Ser Ser Ile Leu Ile Leu Ser Pro Pro Ala Pro Leu Thr Pro Arg Ser

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      20      25      30
Pro Gly Thr Glu Ala Thr Arg Pro Thr Ala Met Ser Lys Ser Leu Lys
      35      40      45
Lys Lys Ser His Trp Thr Ser Lys Val His Glu Ser Val Ile Gly Arg
      50      55      60
Asn Pro Glu Gly Gln Leu Gly Phe Glu Leu Lys Gly Gly Ala Glu Asn
      65      70      75      80
Gly Gln Phe Pro Tyr Leu Gly Glu Val Lys Pro Gly Lys Val Ala Tyr
      85      90      95
Glu Ser Gly Ser Lys Leu Val Ser Glu Glu Leu Leu Glu Val Asn
      100      105      110
Glu Thr Pro Val Ala Gly Leu Thr Ile Arg Asp Val Leu Ala Val Ile
      115      120      125
Lys His Cys Lys Asp Pro Leu Arg Leu Lys Cys Val Lys Gln Gly Glu
      130      135      140
Ser Ser Gly Leu Leu Ser Val Leu Pro Gly Gly Thr Ala Arg Gly
      145      150      155      160
Ala Gly Gln
      163

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<210> 752
 <211> 99
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 752
Ser His Arg Pro Gln Pro Asp Ala Trp Arg Gln Gly Asn Ala Phe Gln
      1      5      10      15
Cys Val Gln Lys Glu Lys Met Gln Val Ser Ser Ala Glu Val Arg Ile
      20      25      30
Gly Pro Met Arg Leu Thr Gln Asp Pro Ile Gln Val Leu Leu Ile Phe
      35      40      45
Ala Lys Glu Asp Ser Gln Ser Asp Gly Phe Trp Trp Ala Cys Asp Arg
      50      55      60
Ala Gly Tyr Arg Cys Asn Ile Ala Arg Thr Pro Glu Ser Ala Leu Glu
      65      70      75      80
Cys Phe Leu Asp Lys His His Glu Ile Ile Val Ile Asp His Arg Gln
      85      90      95
Thr Gln Asn
      99

```

<210> 753
 <211> 193
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 753
Phe Arg Leu Ala Gly Cys Gly His Leu Leu Val Ser Leu Leu Gly Leu
      1      5      10      15
Leu Leu Leu Leu Ala Arg Ser Gly Thr Arg Ala Leu Val Cys Leu Pro
      20      25      30
Cys Asp Glu Ser Lys Cys Glu Glu Pro Arg Asn Cys Pro Gly Ser Ile
      35      40      45
Val Gln Gly Val Cys Gly Cys Cys Tyr Thr Cys Ala Ser Gln Arg Asn

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```

      50      55      60
Glu Ser Cys Gly Gly Thr Phe Gly Ile Tyr Gly Thr Cys Asp Arg Gly
65      70      75      80
Leu Arg Cys Val Ile Arg Pro Pro Leu Asn Gly Asp Ser Leu Thr Glu
      85      90      95
Tyr Glu Ala Gly Val Cys Glu Asp Glu Asn Trp Thr Asp Asp Gln Leu
100      105      110
Leu Gly Phe Lys Pro Cys Asn Glu Asn Leu Ile Ala Gly Cys Asn Ile
115      120      125
Ile Asn Gly Lys Cys Glu Cys Asn Thr Ile Arg Thr Cys Ser Asn Pro
130      135      140
Phe Glu Phe Pro Ser Gln Asp Met Cys Leu Ser Ala Leu Lys Arg Ile
145      150      155      160
Glu Glu Glu Lys Pro Asp Cys Ser Lys Ala Arg Cys Glu Val Gln Phe
165      170      175
Ser Pro Arg Cys Pro Glu Asp Ser Val Leu Ile Glu Gly Tyr Ala Pro
180      185      190
Pro
193

```

<210> 754
 <211> 73
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 754
Phe Arg Met Ala Ala Asn Val Gly Ser Met Phe Gln Tyr Trp Lys Arg
1      5      10      15
Phe Asp Leu Gln Gln Leu Gln Arg Glu Leu Asp Ala Thr Ala Thr Val
20      25      30
Leu Ala Asn Arg Gln Asp Glu Ser Glu Gln Ser Arg Lys Arg Leu Ile
35      40      45
Glu Gln Ser Arg Glu Phe Lys Lys Asn Thr Pro Glu Val Arg Arg Val
50      55      60
Thr Ile Val Phe Ala Leu Lys Gly Ser
65      70      73

```

<210> 755
 <211> 83
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 755
Glu Thr Leu Ser Cys Arg Ile Met Asp His Pro Ser Arg Glu Lys Asp
1      5      10      15
Glu Arg Gln Arg Thr Thr Lys Pro Met Ala Gln Arg Ser Ala His Cys
20      25      30
Ser Arg Pro Ser Gly Ser Ser Ser Ser Ser Gly Val Leu Met Val Gly
35      40      45
Pro Asn Phe Arg Val Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu
50      55      60
Leu Arg Leu Gly Glu Gly Leu Pro Gln Val Tyr Tyr Phe Gly Pro Cys
65      70      75      80
Gly Lys Tyr

```

83

<210> 756
 <211> 100
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(100)
 <223> X = any amino acid or stop code

<400> 756
 Gly Cys Cys Lys Asp Xaa His Ser Gly Val Ile Gly Arg Ser Trp Ala
 1 5 10 15
 Met Leu Phe Ala Ser Gly Gly Phe Gln Val Lys Leu Tyr Asp Ile Glu
 20 25 30
 Gln Gln Gln Ile Arg Asn Ala Leu Glu Asn Ile Arg Trp Ala Ser Arg
 35 40 45
 Arg Ser Pro Glu Gly Met Glu Val Gly Leu Phe Leu Ser Val Gly Leu
 50 55 60
 Val Cys His Ile Leu Lys Ala Met Arg Ile Cys Asp Val Thr Phe Ser
 65 70 75 80
 Ser Asp Gly Tyr Cys Ser Ala Ser Glu Leu Val Lys Ala Arg Pro Thr
 85 90 95
 Val Ala Gly Met
 100

<210> 757
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 757
 Asn Ser Arg Val Asp Asp Phe Val Ser Ala Arg Pro Lys Pro Arg Pro
 1 5 10 15
 Leu Pro Arg Ala Arg Gly Met Val Val Val Thr Gly Arg Glu Pro Asp
 20 25 30
 Ser Arg Arg Gln Asp Gly Ala Met Ser Ser Ser Asp Ala Glu Asp Asp
 35 40 45
 Phe Leu Glu Pro Ala Thr Pro Thr Ala Thr Gln Ala Gly His Ala Leu
 50 55 60
 Pro Pro Ala Ala Thr Gly Ser Phe Leu Arg Leu Phe Pro Leu Thr Ser
 65 70 75 80
 Glu Gly Leu Thr Ser Leu His Ala Cys Pro His Cys Gly Ala Thr Lys
 85 90 95
 Thr Pro Cys Trp Gln Pro Cys Ser Val Gly Gly Thr Thr Ser Pro Arg
 100 105 110
 Thr Pro Arg Ala Gly Thr Ser Ser Thr Glu Met Ala His Thr Leu Glu
 115 120 125
 Met Cys
 130

<210> 758
 <211> 121
 <212> Amino acid
 <213> Homo sapiens

<400> 758
 Arg Ala Leu Trp Val Gly Gly Cys Ser Gly Glu Ala Cys Gly Ile Gly
 1 5 10 15
 Met Ser Gly Leu Leu Thr Asp Pro Glu Gln Arg Ala Gln Glu Pro Arg
 20 25 30
 Tyr Pro Gly Phe Val Leu Gly Leu Asp Val Gly Ser Ser Val Ile Arg
 35 40 45
 Cys His Val Tyr Asp Arg Ala Ala Arg Val Cys Gly Ser Ser Val Gln
 50 55 60
 Lys Val Glu Asn Leu Tyr Pro Gln Ile Gly Trp Val Glu Ile Asp Pro
 65 70 75 80
 Asp Val Leu Trp Ile Gln Phe Val Ala Val Ile Lys Glu Ala Val Lys
 85 90 95
 Ala Ala Gly Ile Gln Met Asn Gln Ile Val Gly Leu Gly Ile Ser Thr
 100 105 110
 Gln Arg Ala Thr Phe Ile Thr Trp Asn
 115 120 121

<210> 759
 <211> 210
 <212> Amino acid
 <213> Homo sapiens

<400> 759
 Gly Leu Ala Ala Glu Gln Ser Met Gln Phe Val Lys Leu Trp Cys Gly
 1 5 10 15
 Cys Ser Gly Glu Phe Pro Thr Arg Leu Arg Arg Arg Thr Pro Leu Thr
 20 25 30
 Glu Ala Met Glu Gly Gly Pro Ala Val Cys Cys Gln Asp Pro Arg Ala
 35 40 45
 Glu Leu Val Glu Arg Val Ala Ala Ile Asp Val Thr His Leu Glu Glu
 50 55 60
 Ala Asp Gly Gly Pro Glu Pro Thr Arg Asn Gly Val Asp Pro Pro Pro
 65 70 75 80
 Arg Ala Arg Ala Ala Ser Val Ile Pro Gly Ser Thr Ser Arg Leu Leu
 85 90 95
 Pro Ala Arg Pro Ser Leu Ser Ala Arg Lys Leu Ser Leu Gln Glu Arg
 100 105 110
 Pro Ala Gly Ser Tyr Leu Glu Ala Gln Ala Gly Pro Tyr Ala Thr Gly
 115 120 125
 Pro Ala Ser His Ile Ser Pro Arg Ala Trp Arg Arg Pro Thr Ile Glu
 130 135 140
 Ser His His Val Ala Ile Ser Asp Ala Glu Asp Cys Val Gln Leu Asn
 145 150 155 160
 Gln Tyr Lys Leu Gln Ser Glu Ile Gly Lys Gly Ala Tyr Gly Val Val
 165 170 175
 Arg Leu Ala Tyr Asn Glu Ser Glu Asp Arg His Tyr Ala Met Lys Val
 180 185 190
 Leu Ser Lys Lys Lys Leu Leu Lys Gln Tyr Gly Phe Pro Arg Arg Pro
 195 200 205

Pro Pro
210

<210> 760
<211> 172
<212>Amino acid
<213> Homo sapiens

<400> 760
Phe Val Tyr Gly Lys Pro Val Thr Leu Trp Pro Thr Ile Ser Ser Val
1 5 10 15
Val Pro Ser Thr Phe Leu Gly Leu Gly Asn Tyr Glu Val Glu Val Glu
20 25 30
Ala Glu Pro Asp Val Arg Gly Pro Glu Ile Val Thr Met Gly Glu Asn
35 40 45
Asp Pro Pro Ala Val Glu Ala Pro Phe Ser Phe Arg Ser Leu Phe Gly
50 55 60
Leu Asp Asp Leu Lys Ile Ser Pro Val Ala Pro Asp Ala Asp Ala Val
65 70 75 80
Ala Ala Gln Ile Leu Ser Leu Leu Pro Leu Lys Phe Phe Pro Ile Ile
85 90 95
Val Ile Gly Ile Ile Ala Leu Ile Leu Ala Leu Ala Ile Gly Leu Gly
100 105 110
Ile His Phe Asp Cys Ser Gly Lys Tyr Arg Cys Arg Ser Ser Phe Lys
115 120 125
Cys Ile Glu Leu Ile Ala Arg Cys Asp Gly Val Ser Asp Cys Lys Asp
130 135 140
Gly Glu Asp Glu Tyr Arg Cys Val Arg Val Gly Gly Gln Asn Ala Ala
145 150 155 160
Leu Gln Val Phe Thr Ala Ala Ser Arg Lys Thr Met
165 170 172

<210> 761
<211> 104
<212>Amino acid
<213> Homo sapiens

<400> 761
Ser Leu Ala Met Pro Phe Gly Cys Val Thr Leu Gly Asp Lys Lys Asn
1 5 10 15
Tyr Asn Gln Pro Ser Glu Val Thr Asp Arg Tyr Asp Leu Gly Gln Val
20 25 30
Ile Lys Thr Glu Glu Phe Cys Glu Ile Phe Arg Ala Lys Asp Lys Thr
35 40 45
Thr Gly Lys Leu His Thr Cys Lys Lys Phe Gln Lys Arg Asp Gly Arg
50 55 60
Lys Val Arg Lys Ala Ala Lys Asn Glu Ile Gly Ile Leu Lys Met Val
65 70 75 80
Lys His Pro Asn Ile Leu Gln Leu Val Asp Val Phe Val Thr Arg Lys
85 90 95
Glu Tyr Phe Ile Phe Leu Glu Leu
100 104

<210> 762
 <211> 249
 <212>Amino acid
 <213> Homo sapiens

<400> 762
 Gln Arg Arg Arg Phe Arg Ala Gly Leu Trp Gly Gly His Gly Leu Thr
 1 5 10 15
 Asp Gly Leu Arg Arg Asn Gly Gly Cys Gly Cys Ser Ala Arg Val Pro
 20 25 30
 Arg Val Gly Glu Arg Leu Arg Gly His Arg Cys Pro Asp Pro Leu Cys
 35 40 45
 Leu Leu Leu Asp Met Leu Phe Leu Ser Phe His Ala Gly Ser Trp Glu
 50 55 60
 Ser Trp Cys Cys Cys Cys Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg
 65 70 75 80
 Gly Gln His Trp Gln Leu Glu Met Ala Asp Thr Arg Ser Val His Glu
 85 90 95
 Thr Arg Phe Glu Ala Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn
 100 105 110
 Gly Ser Phe Gln Pro Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe
 115 120 125
 Tyr Lys Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe
 130 135 140
 Trp Asp Pro Ile Gly Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly
 145 150 155 160
 Asp Met Thr Lys Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys
 165 170 175
 Lys Ile Ile Glu Thr Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu
 180 185 190
 Arg Val Ile Gly Pro Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly
 195 200 205
 Arg Ser Ser Asp Ile Thr Ser Asp Leu Gly Asn Val Leu Thr Ser Thr
 210 215 220
 Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu Ser Ser Asp Ser Gly
 225 230 235 240
 Ala Glu Ser Glu Glu Glu Glu Ala Cys
 245 249

<210> 763
 <211> 184
 <212>Amino acid
 <213> Homo sapiens

<400> 763
 Ser Cys Phe Lys Gly Arg Thr Gly Gly Arg Ser Gly Ser Ser Gly Asp
 1 5 10 15
 Ser Ser Arg Trp Ala Arg Cys Gly Arg His Phe Ser Ala Ser Thr Glu
 20 25 30
 Glu Pro Pro Leu Ser Gln Pro Cys Ser Ala Leu Pro Arg Ser Gly Arg
 35 40 45
 Arg Gly Cys Ala Val Pro Ser Ser Val Thr Lys Met Leu Ser Phe Phe
 50 55 60
 Arg Arg Thr Leu Gly Arg Arg Ser Met Arg Lys His Ala Glu Lys Glu
 65 70 75 80

```

Arg Leu Arg Glu Ala Gln Arg Ala Ala Thr His Ile Pro Ala Ala Gly
      85                      90                      95
Asp Ser Lys Ser Ile Ile Thr Cys Arg Val Ser Leu Leu Asp Gly Thr
      100                      105                      110
Asp Val Ser Val Asp Leu Pro Lys Lys Ala Lys Gly Gln Glu Leu Phe
      115                      120                      125
Asp Gln Ile Met Tyr His Leu Asp Leu Ile Glu Ser Asp Tyr Phe Gly
      130                      135                      140
Leu Arg Phe Met Asp Ser Ala Gln Val Ala His Trp Leu Asp Gly Thr
      145                      150                      155                      160
Lys Ser Ile Lys Lys Gln Val Lys Ile Gly Ser Pro Tyr Cys Leu His
      165                      170                      175
Leu Arg Val Lys Phe Tyr Ser Ser
      180                      184

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<210> 764
<211> 138
<212>Amino acid
<213> Homo sapiens

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```

<400> 764
Glu Ser Arg Glu Arg Ser Gly Asn Arg Arg Gly Ala Glu Asp Arg Gly
 1                      5                      10                      15
Thr Cys Gly Leu Gln Ser Pro Ser Ala Met Leu Gly Ala Lys Pro His
      20                      25                      30
Trp Leu Pro Gly Pro Leu His Ser Pro Gly Leu Pro Leu Val Leu Val
      35                      40                      45
Leu Leu Ala Leu Gly Ala Gly Trp Ala Gln Glu Gly Ser Glu Pro Val
      50                      55                      60
Leu Leu Glu Gly Glu Cys Leu Val Val Cys Glu Pro Gly Arg Ala Ala
      65                      70                      75                      80
Ala Gly Gly Pro Gly Gly Ala Ala Leu Gly Glu Ala Pro Pro Gly Arg
      85                      90                      95
Val Ala Phe Ala Ala Val Arg Ser His His His Glu Pro Ala Gly Glu
      100                      105                      110
Thr Gly Asn Gly Thr Ser Gly Ala Ile Tyr Phe Asp Gln Val Leu Val
      115                      120                      125
Asn Glu Gly Gly Gly Phe Asp Arg Ala Ser
      130                      135                      138

```

```

<210> 765
<211> 168
<212>Amino acid
<213> Homo sapiens

```

```

<400> 765
Glu Asp Val Lys Ser Tyr Tyr Thr Val His Leu Pro Gln Leu Glu Asn
 1                      5                      10                      15
Ile Asn Ser Gly Glu Thr Arg Thr Ile Ser His Phe His Tyr Thr Thr
      20                      25                      30
Trp Pro Asp Phe Gly Val Pro Gln Ser Pro Ala Ser Phe Leu Asn Phe
      35                      40                      45
Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Asn Pro Asp His Gly Pro
      50                      55                      60

```

```

Val Val Ile His Arg Ser Ala Gly Thr Gly Arg Ser Ser Thr Phe Ser
 65          70          75          80
Val Val His Thr Cys Leu Val Leu Met Glu Lys Gly Asp Asp Ile Asn
          85          90          95
Ile Lys Gln Val Leu Leu Asn Ile Arg Lys Phe Gln Met Gly Leu Ile
          100          105          110
Gln Thr Pro Asp Gln Leu Arg Phe Ser Tyr Met Ala Ile Thr Glu Gly
          115          120          125
Ala Lys Cys Val Lys Gly Asp Ser Ser Ile Gln Lys Arg Trp Lys Glu
          130          135          140
Leu Ser Lys Glu Asp Leu Pro Pro Ala Phe Asp His Ser Pro Asn Lys
145          150          155          160
Ile Met Thr Glu Lys Tyr Asn Arg
          165          168

```

<210> 766
 <211> 255
 <212> Amino acid
 <213> Homo sapiens

```

<400> 766
Leu Asn Arg Gln Arg Cys Gly Asp Gln Val Leu Val Pro Gly Thr Gly
 1          5          10          15
Leu Ala Ala Ile Leu Arg Thr Leu Pro Met Phe His Asp Glu Glu His
          20          25          30
Ala Arg Ala Arg Gly Leu Ser Glu Asp Thr Leu Val Leu Pro Pro Ala
          35          40          45
Ser Arg Asn Gln Arg Ile Leu Tyr Thr Val Leu Glu Cys Gln Pro Leu
          50          55          60
Phe Asp Ser Ser Asp Met Thr Ile Ala Glu Trp Val Cys Leu Ala Gln
          65          70          75          80
Thr Ile Lys Arg His Tyr Glu Gln Tyr His Gly Phe Val Val Ile His
          85          90          95
Gly Thr Asp Thr Met Ala Phe Ala Ala Ser Met Leu Ser Phe Met Leu
          100          105          110
Glu Asn Leu Gln Lys Thr Val Ile Leu Thr Gly Ala Gln Val Pro Ile
          115          120          125
His Ala Leu Trp Ser Asp Gly Arg Glu Asn Leu Leu Gly Ala Leu Leu
          130          135          140
Met Ala Gly Gln Tyr Val Ile Pro Glu Val Cys Leu Phe Phe Gln Asn
145          150          155          160
Gln Leu Phe Arg Gly Asn Arg Ala Thr Lys Val Asp Ala Arg Arg Phe
          165          170          175
Ala Ala Phe Cys Ser Pro Asn Leu Leu Pro Leu Ala Thr Val Gly Ala
          180          185          190
Asp Ile Thr Ile Asn Arg Glu Leu Val Arg Lys Val Asp Gly Lys Ala
          195          200          205
Gly Leu Val Val His Ser Ser Met Glu Gln Asp Val Gly Leu Leu Arg
210          215          220
Leu Tyr Pro Gly Ile Pro Ala Ala Leu Val Arg Ala Phe Leu Gln Pro
225          230          235          240
Pro Leu Lys Gly Val Val Met Glu Thr Phe Gly Ser Gly Asn Gly
          245          250          255

```

<210> 767
 <211> 260
 <212> Amino acid
 <213> Homo sapiens

<400> 767

```

Leu Phe Arg Leu Ala Pro Gly Phe Leu Arg Ser Leu Ala Arg Gln Gly
 1           5           10           15
Tyr His Gln Ile Trp Ala Phe Pro Phe Leu Pro Ser Gly Ala Thr Ala
          20           25           30
Thr Trp Pro Ala Ala Ser Arg Ser Arg Ser Leu Ala Ala Arg Ser Leu
          35           40           45
Pro Arg Ser Pro Ala Arg Pro Gly Pro Asn Asp Ala Leu Leu Gly Glu
          50           55           60
His Asp Phe Arg Gly Gln Gly Val Arg Ala Gln Arg Phe Arg Phe Ser
          65           70           75           80
Glu Glu Pro Gly Pro Gly Ala Asp Gly Ala Val Leu Glu Val His Val
          85           90           95
Pro Gln Ile Gly Ala Gly Val Ser Leu Pro Gly Ile Leu Ala Ala Lys
          100          105          110
Cys Gly Ala Glu Val Ile Leu Ser Asp Ser Ser Glu Leu Pro His Cys
          115          120          125
Leu Glu Val Cys Arg Gln Ser Cys Gln Met Asn Asn Leu Pro His Leu
          130          135          140
Gln Val Val Gly Leu Thr Trp Gly His Ile Ser Trp Asp Leu Leu Ala
          145          150          155          160
Leu Pro Pro Gln Asp Ile Ile Leu Ala Ser Asp Val Phe Phe Glu Pro
          165          170          175
Glu Asp Phe Glu Asp Ile Leu Ala Thr Ile Tyr Phe Leu Met His Lys
          180          185          190
Asn Pro Lys Val Gln Leu Trp Ser Thr Tyr Gln Val Arg Ser Ala Asp
          195          200          205
Trp Ser Leu Glu Ala Leu Leu Tyr Lys Trp Asp Met Lys Cys Val His
          210          215          220
Ile Pro Leu Glu Ser Phe Asp Ala Asp Lys Glu Asp Ile Ala Glu Ser
          225          230          235          240
Thr Leu Pro Gly Arg His Thr Val Glu Met Leu Val Ile Ser Phe Ala
          245          250          255
Lys Asp Ser Leu
          260

```

<210> 768

<211> 200

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(200)

<223> X = any amino acid or stop code

<400> 768

```

Ser Phe Ile Tyr Lys His Thr His Arg Ala Arg Phe Gly Pro Arg Ala
 1           5           10           15
Ile Val Ala Ser Pro Ala Leu Thr Ala Gly Pro His Val Ser Leu Thr
          20           25           30
Ala Ser Cys Arg Val Gly Met Trp Val Ser Cys Ser Pro Ser Pro Phe
          35           40           45
Leu His Pro Thr Asn Thr Leu Val Ala Val Leu Glu Arg Asp Thr Leu

```



```

      50              55              60
Gly Ile Arg Glu Val Arg Leu Phe Asn Ala Val Val Arg Trp Ser Glu
 65              70              75              80
Ala Glu Cys Gln Arg Gln Gln Leu Gln Val Thr Pro Glu Asn Arg Arg
      85              90              95
Lys Val Leu Gly Lys Ala Leu Gly Leu Ile Arg Phe Pro Leu Met Thr
      100              105              110
Ile Glu Glu Phe Ala Ala Gly Asn Arg Ala Arg Ala Gln Gly Leu Val
      115              120              125
Trp Glu Gly Ser Gly Thr Gln Val Gly Ile Trp Cys Thr Glu Asp Ser
      130              135              140
Ala Pro Glu Phe Thr Ala Glu Ser Leu Ala Asp Ala Trp His Ile Gln
      145              150              155              160
Ile Gly Arg Asn Leu Ala Cys Glu Asp Ala Ser Thr Trp Ala Ile Cys
      165              170              175
Xaa Pro Arg Pro Gly Ser Val Pro Thr Val His Thr Ala Arg Pro Arg
      180              185              190
Leu Ser Cys Leu Ser Ser Cys Phe
      195              200

```

```

<210> 769
<211> 33
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(33)
<223> X = any amino acid or stop code

```

```

      <400> 769
Met Ala Ser Thr Gln Asp Ala Glu Leu Ala Val Ser Arg Xaa Arg Ala
 1              5              10              15
Ile Ala Leu Xaa Pro Gly Xaa Gln Ser Xaa Xaa Pro Ser Gln Lys Lys
      20              25              30
Lys
33

```

```

<210> 770
<211> 599
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 770
Leu Leu Lys Ser Cys Gly Val Leu Leu Ser Gly Val Cys Ile Pro Cys
 1              5              10              15
Glu Gly Lys Gly Pro Thr Val Leu Val Ile Gln Thr Ala Val Pro Gln
      20              25              30
Asp Arg Pro Thr Lys Ser Ser Met Arg Ser Ala Ala Lys Pro Trp Asn
      35              40              45
Pro Ala Ile Arg Ala Gly Gly His Gly Pro Asp Arg Val Arg Pro Leu
      50              55              60
Pro Ala Ala Ser Ser Gly Met Lys Ser Ser Lys Ser Ser Thr Ser Leu
      65              70              75              80

```

Ala	Phe	Glu	Ser	Arg	Leu	Ser	Arg	Leu	Lys	Arg	Ala	Ser	Ser	Glu	Asp
				85					90					95	
Thr	Leu	Asn	Lys	Pro	Gly	Ser	Thr	Ala	Ala	Ser	Gly	Val	Val	Arg	Leu
			100					105					110		
Lys	Lys	Thr	Ala	Thr	Ala	Gly	Ala	Ile	Ser	Glu	Leu	Thr	Glu	Ser	Arg
		115					120					125			
Leu	Arg	Ser	Gly	Thr	Gly	Ala	Phe	Thr	Thr	Thr	Lys	Arg	Thr	Gly	Ile
	130				135						140				
Pro	Ala	Pro	Arg	Glu	Phe	Ser	Val	Thr	Val	Ser	Arg	Glu	Arg	Ser	Val
145					150					155					160
Pro	Arg	Gly	Pro	Ser	Asn	Pro	Arg	Lys	Ser	Val	Ser	Ser	Pro	Thr	Ser
				165					170					175	
Ser	Asn	Thr	Pro	Thr	Pro	Thr	Lys	His	Leu	Arg	Thr	Pro	Ser	Thr	Lys
			180					185					190		
Pro	Lys	Gln	Glu	Asn	Glu	Gly	Gly	Glu	Lys	Val	Arg	Leu	Ser	Pro	Lys
	195						200					205			
Phe	Arg	Glu	Leu	Leu	Ala	Glu	Ala	Lys	Ala	Lys	Asp	Ser	Glu	Ile	Asn
	210					215					220				
Arg	Leu	Arg	Ser	Glu	Leu	Lys	Lys	Tyr	Lys	Glu	Lys	Arg	Thr	Leu	Asn
225					230					235					240
Ala	Glu	Gly	Thr	Asp	Ala	Leu	Gly	Pro	Asn	Val	Asp	Gly	Thr	Ser	Val
				245					250					255	
Ser	Pro	Gly	Asp	Thr	Glu	Pro	Met	Ile	Arg	Ala	Leu	Glu	Glu	Lys	Asn
			260					265					270		
Lys	Asn	Phe	Gln	Lys	Glu	Leu	Ser	Asp	Leu	Glu	Glu	Glu	Asn	Arg	Val
	275						280					285			
Leu	Lys	Glu	Lys	Leu	Ile	Tyr	Leu	Glu	His	Ser	Pro	Asn	Ser	Glu	Gly
	290				295						300				
Ala	Ala	Ser	His	Thr	Gly	Asp	Ser	Ser	Cys	Pro	Thr	Ser	Ile	Thr	Gln
305					310					315					320
Glu	Ser	Ser	Phe	Gly	Ser	Pro	Thr	Gly	Asn	Gln	Leu	Ser	Ser	Asp	Ile
				325					330					335	
Asp	Glu	Tyr	Lys	Lys	Asn	Ile	His	Gly	Asn	Ala	Leu	Arg	Thr	Ser	Gly
			340					345					350		
Ser	Ser	Ser	Ser	Asp	Val	Thr	Lys	Ala	Ser	Leu	Ser	Pro	Asp	Ala	Ser
			355				360						365		
Asp	Phe	Glu	His	Ile	Thr	Ala	Glu	Thr	Pro	Ser	Arg	Pro	Leu	Ser	Ser
	370					375					380				
Thr	Ser	Asn	Pro	Phe	Lys	Ser	Ser	Lys	Cys	Ser	Thr	Ala	Gly	Ser	Ser
385					390					395					400
Pro	Asn	Ser	Val	Ser	Glu	Leu	Ser	Leu	Ala	Ser	Leu	Thr	Glu	Lys	Ile
			405						410					415	
Gln	Lys	Met	Glu	Glu	Asn	His	His	Ser	Thr	Ala	Glu	Glu	Leu	Gln	Ala
			420					425					430		
Thr	Leu	Gln	Glu	Leu	Ser	Asp	Gln	Gln	Gln	Met	Val	Gln	Glu	Leu	Thr
		435					440					445			
Ala	Glu	Asn	Glu	Lys	Leu	Val	Asp	Glu	Lys	Thr	Ile	Leu	Glu	Thr	Ser
	450					455					460				
Phe	His	Gln	His	Arg	Glu	Arg	Ala	Glu	Gln	Leu	Ser	Gln	Glu	Asn	Glu
465					470					475					480
Lys	Leu	Met	Asn	Leu	Leu	Gln	Glu	Arg	Val	Lys	Asn	Glu	Glu	Pro	Thr
			485						490					495	
Thr	Gln	Glu	Gly	Lys	Ile	Ile	Glu	Leu	Glu	Gln	Lys	Cys	Thr	Gly	Ile
			500				505						510		
Leu	Glu	Gln	Gly	Arg	Phe	Glu	Arg	Glu	Lys	Leu	Leu	Asn	Ile	Gln	Gln
		515					520					525			
Gln	Leu	Thr	Cys	Ser	Leu	Arg	Lys	Val	Glu	Glu	Glu	Asn	Gln	Gly	Ala
	530					535					540				
Leu	Glu	Met	Ile	Lys	Arg	Leu	Lys	Glu	Glu	Asn	Glu	Lys	Leu	Asn	Glu
545					550					555					560
Phe	Leu	Glu	Leu	Glu	Arg	His	Asn	Asn	Asn	Met	Met	Ala	Lys	Thr	Leu
			565						570					575	
Glu	Glu	Cys	Arg	Val	Thr	Leu	Glu	Gly	Leu	Lys	Met	Glu	Asn	Gly	Ser
			580					585					590		

Leu Lys Ser His Leu Gln Gly
595 599

<210> 771
<211> 103
<212>Amino acid
<213> Homo sapiens

<400> 771
Ser Gln Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn
1 5 10 15
Phe Cys Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile
20 25 30
Lys Ala Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu
35 40 45
Thr Asp Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly
50 55 60
Tyr Val Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu
65 70 75 80
Leu Thr Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val
85 90 95
Phe Asp Asn Gln Phe Gly Leu
100 103

<210> 772
<211> 218
<212>Amino acid
<213> Homo sapiens

<400> 772
Pro Phe Lys Lys Met Thr Asp Leu Leu Arg Ser Val Val Thr Val Ile
1 5 10 15
Asp Val Phe Tyr Lys Tyr Thr Lys Gln Asp Gly Glu Cys Gly Thr Leu
20 25 30
Ser Lys Gly Glu Leu Lys Glu Leu Glu Lys Glu Leu His Pro Val
35 40 45
Leu Lys Asn Pro Asp Asp Pro Asp Thr Val Asp Val Ile Met His Met
50 55 60
Leu Asp Arg Asp His Asp Arg Arg Leu Asp Phe Thr Glu Phe Leu Leu
65 70 75 80
Met Ile Phe Lys Leu Thr Met Ala Cys Asn Lys Val Leu Ser Lys Glu
85 90 95
Tyr Cys Lys Ala Ser Gly Ser Lys Lys His Arg Arg Gly His Arg His
100 105 110
Gln Glu Glu Glu Ser Glu Thr Glu Glu Asp Glu Glu Thr Pro Gly
115 120 125
His Lys Ser Gly Tyr Arg His Ser Ser Trp Ser Glu Gly Glu Glu His
130 135 140
Gly Tyr Ser Ser Gly His Ser Arg Gly Thr Val Lys Cys Arg His Gly
145 150 155 160
Ser Asn Ser Arg Arg Leu Gly Arg Gln Gly Asn Leu Ser Ser Ser Gly
165 170 175
Asn Gln Glu Gly Ser Gln Lys Arg Tyr His Arg Ser Ser Cys Gly His
180 185 190

Ser Trp Ser Gly Gly Lys Asp Arg His Gly Ser Ser Ser Val Glu Leu
 195 200 205
 Arg Glu Arg Ile Asn Lys Ser His Ile Lys
 210 215 218

<210> 773
 <211> 130
 <212> Amino acid
 <213> Homo sapiens

<400> 773
 Val Pro Lys Ile Ser Gly Pro Asp His Ile Asp Phe Ile Pro Trp Asp
 1 5 10 15
 Gln Leu Phe Met Ala Ser Ser Ser Ser Val Thr Glu Phe Leu Val Leu
 20 25 30
 Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Val Leu Phe Ala Val Phe
 35 40 45
 Leu Cys Leu Tyr Leu Ile Ile Leu Ser Gly Asn Ile Ile Ile Ser
 50 55 60
 Val Ile His Leu Asp His Ser Leu His Thr Pro Met Tyr Phe Phe Leu
 65 70 75 80
 Gly Ile Leu Ser Ile Ser Glu Ile Phe Tyr Thr Thr Val Ile Leu Pro
 85 90 95
 Lys Met Leu Ile Asn Leu Phe Ser Val Phe Arg Thr Leu Ser Phe Val
 100 105 110
 Ser Cys Ala Thr Gln Met Phe Tyr Glu Ile Val Gly Pro Gly Thr Gln
 115 120 125
 Glu Arg
 130

<210> 774
 <211> 204
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> X = any amino acid or stop code

<400> 774
 Asp His Ser Thr Glu Thr Pro Gly Ile Pro Ala Ala Glu Pro Val Ser
 1 5 10 15
 His Gly Thr Gly Lys Leu Glu Arg Ala Pro Thr Leu Pro Ala Gly Ala
 20 25 30
 Glu Leu Pro Ala Pro Ala Ala Val Pro Cys Pro Thr Leu Xaa Val Cys
 35 40 45
 Leu Tyr Pro Gln Leu Leu Gly Leu Ser Val Ala Thr Met Val Thr Leu
 50 55 60
 Thr Tyr Phe Gly Ala His Phe Ala Val Ile Arg Arg Ala Ser Leu Glu
 65 70 75 80
 Lys Asn Pro Tyr Gln Ala Val His Gln Trp Gly Thr Gln Gln Arg Leu
 85 90 95
 Ile Gln His Pro Glu Ser Gly Ser Glu Gly Gln Ser Leu Leu Gly Pro

```

      100      105      110
Leu Arg Ala Phe Ser Ala Gly Leu Ser Leu Val Gly Leu Leu Thr Leu
      115      120      125
Gly Ala Val Leu Ser Ala Ala Ala Thr Val Arg Glu Ala Gln Gly Leu
      130      135      140
Met Ala Gly Gly Phe Leu Cys Phe Ser Leu Ala Phe Cys Ala Gln Val
145      150      155      160
Gln Val Val Phe Trp Arg Leu His Ser Pro Thr Gln Val Glu Asp Ala
      165      170      175
Met Leu Asp Thr Tyr Asp Leu Val Tyr Glu Gln Ala Met Lys Gly Thr
      180      185      190
Ser His Val Arg Arg Gln Glu Leu Ala Ala Ile Gln
      195      200      204

```

<210> 775
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

```

<400> 775
Gln Pro Gly Tyr Ser Glu Tyr Asp Lys Asn Arg Gly Gln Gly Met Leu
 1      5      10      15
Leu Asn Met Met Cys Gly Arg Gln Leu Ser Ala Ile Ser Leu Cys Leu
      20      25      30
Ala Val Thr Phe Ala Pro Leu Phe Asn Ala Gln Ala Asp Glu Pro Glu
      35      40      45
Val Ile Pro Gly Asp Ser Pro Val Ala Val Ser Glu Gln Gly Glu Ala
      50      55      60
Leu Pro Gln Ala Gln Ala Thr Ala Ile Met Ala Gly Ile Gln Pro Leu
      65      70      75      80
Pro Glu Gly Ala Ala Glu Lys Ala Arg Thr Gln Ile Glu Ser Gln Leu
      85      90      95
Pro Ala Gly Tyr Lys Pro Val Tyr Leu Asn Gln Leu Gln Leu Leu Tyr
      100      105      110
Ala Ala Arg Gly Ile Ser Cys Ser Val
      115      120 121

```

<210> 776
 <211> 142
 <212>Amino acid
 <213> Homo sapiens

```

<400> 776
Arg Thr Arg Ala Ala Asp Val Tyr Val Phe Ser Leu Thr Gly Lys Ser
 1      5      10      15
Arg Asn Val Ser Ser Ser Thr Val Arg Arg Ser Ala Val Gly Gly Met
      20      25      30
Ser Ala Leu Ala Leu Phe Asp Leu Leu Lys Pro Asn Tyr Ala Leu Ala
      35      40      45
Thr Gln Val Glu Phe Thr Asp Pro Glu Ile Val Ala Glu Tyr Ile Thr
      50      55      60
Tyr Pro Ser Pro Asn Gly His Gly Glu Val Arg Gly Tyr Leu Val Lys
      65      70      75      80
Pro Ala Lys Met Ser Gly Lys Thr Pro Ala Val Val Val Val His Glu

```

```
<210> 777
<211> 150
<212> Amino acid
<213> Homo sapiens
```

```
<210> 778
<211> 296
<212> Amino acid
<213> Homo sapiens
```

427

```

      100      105      110
Ile Arg Arg Phe Leu Leu Ala Tyr Lys Met Met Leu Glu Phe Phe Gly
      115      120      125
Ile Lys Leu Thr Asp Lys Thr Gly Asn Val Ala Arg Ala Val Asn Trp
      130      135      140
Gln Glu Arg Phe Gln His Leu Asn Glu Ser Gln His Asn Tyr Leu Arg
145      150      155      160
Ile Thr Arg Ile Leu Lys Ser Leu Gly Glu Leu Gly Tyr Glu Ser Phe
      165      170      175
Lys Ser Pro Leu Val Lys Phe Ile Leu His Glu Ala Leu Val Glu Asn
      180      185      190
Thr Ile Pro Asn Ile Lys Gln Ser Ala Leu Glu Tyr Phe Val Tyr Thr
      195      200      205
Ile Arg Asp Arg Arg Glu Arg Arg Lys Leu Leu Arg Phe Ala Gln Lys
210      215      220
His Tyr Thr Pro Ser Glu Asn Phe Ile Trp Gly Pro Pro Arg Lys Glu
225      230      235      240
Gln Ser Glu Gly Ser Lys Ala Gln Lys Met Ser Ser Pro Leu Ala Ser
      245      250      255
Ser His Asn Ser Gln Thr Ser Met His Lys Lys Ala Lys Asp Ser Lys
      260      265      270
Asn Ser Ser Ser Ala Val His Leu Asn Ser Lys Thr Ala Glu Asp Lys
      275      280      285
Lys Val Ala Pro Lys Glu Pro Val
290      295 296

```

<210> 779
 <211> 90
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 779
Glu Leu Gln Val Phe Gln Pro Ile Gly Gly Met Ser Asp Ser Gly Ser
 1      5      10      15
Gln Leu Gly Ser Met Gly Ser Leu Thr Met Lys Ser Gln Leu Gln Ile
      20      25      30
Thr Val Ile Ser Ala Lys Leu Lys Glu Asn Lys Lys Asn Trp Phe Gly
      35      40      45
Pro Ser Pro Tyr Val Glu Val Thr Val Asp Gly Gln Ser Lys Lys Thr
      50      55      60
Glu Lys Cys Asn Asn Thr Asn Ser Pro Lys Trp Lys Gln Pro Leu Thr
      65      70      75      80
Val Ile Val Thr Pro Val Ser Lys Leu His
      85      90

```

<210> 780
 <211> 88
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 780
Ile Glu Thr Leu Ser Phe Val Ile Arg Asn Trp Asn Thr His Ala Met
 1      5      10      15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp

```

```

      20      25      30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
      35      40      45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
      50      55      60
Thr Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
      65      70      75      80
Ser Val Cys Glu Glu Ala Ser Cys
      85      88

```

<210> 781
 <211> 35
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 781
Pro Arg Met Val Leu Gly Lys Pro Gln Thr Asp Pro Thr Leu Glu Trp
      1      5      10      15
Phe Leu Ser His Cys His Ile His Lys Tyr Pro Ser Lys Ser Thr Leu
      20      25      30
Ile Pro Gln
      35

```

<210> 782
 <211> 145
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 782
Gly Leu Arg Ile Ser Val Gln Glu Arg Ile Lys Ala Cys Phe Thr Glu
      1      5      10      15
Ser Ile Gln Thr Gln Ile Ala Ala Ala Glu Ala Leu Pro Asp Ala Ile
      20      25      30
Ser Arg Ala Ala Met Thr Leu Val Gln Ser Leu Leu Asn Gly Asn Lys
      35      40      45
Ile Leu Cys Cys Gly Asn Gly Thr Ser Ala Ala Asn Ala Gln His Phe
      50      55      60
Ala Ala Ser Met Ile Asn Arg Phe Glu Thr Glu Arg Pro Ser Leu Pro
      65      70      75      80
Ala Ile Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn
      85      90      95
Asp Arg Leu His Asp Glu Val Tyr Ala Lys Gln Val Arg Ala Leu Gly
      100      105      110
His Ala Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg
      115      120      125
Asp Ile Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Thr Thr Ile
      130      135      140
Val
145

```

<210> 783
 <211> 102
 <212>Amino acid

<213> Homo sapiens

<400> 783

```

Lys Gln Thr Gln His Ala Pro Gly Met Met Lys Lys Tyr Leu Ala Leu
 1              5              10              15
Ala Leu Ile Ala Pro Leu Leu Ile Ser Cys Ser Thr Thr Lys Lys Gly
      20              25              30
Asp Thr Tyr Asn Glu Ala Trp Val Lys Asp Thr Asn Gly Phe Asp Ile
      35              40              45
Leu Met Gly Gln Phe Ala His Asn Ile Glu Asn Ile Trp Gly Phe Lys
      50              55              60
Glu Val Val Ile Ala Gly Pro Lys Asp Tyr Val Lys Tyr Thr Asp Gln
      65              70              75              80
Tyr Gln Thr Arg Ser His Ile Asn Phe Asp Asp Gly Thr Ile Thr Ile
      85              90              95
Glu Pro Ile Pro Gly Thr
      100              102

```

<210> 784

<211> 78

<212>Amino acid

<213> Homo sapiens

<400> 784

```

Thr Asp Arg Thr Ala Leu Asn Pro Gly Gln Glu Ser Ala Met Asn Arg
 1              5              10              15
Leu Phe Ser Gly Arg Ser Asp Met Pro Phe Ala Leu Leu Leu Ala
      20              25              30
Pro Ser Leu Leu Leu Gly Gly Leu Val Ala Trp Pro Met Val Ser
      35              40              45
Asn Ile Glu Ile Ser Phe Leu Arg Leu Pro Leu Asn Pro Asn Ile Glu
      50              55              60
Ser Thr Phe Val Gly Val Ser Asn Tyr Val Arg Ile Leu Ser
      65              70              75              78

```

<210> 785

<211> 148

<212>Amino acid

<213> Homo sapiens

<400> 785

```

Lys Glu Leu Val Asp Glu Lys Ser Glu Arg Gly Arg Ala Met Asp Pro
 1              5              10              15
Val Ser Gln Leu Ala Ser Ala Gly Thr Phe Arg Val Leu Lys Glu Pro
      20              25              30
Leu Ala Phe Leu Arg Ala Leu Glu Leu Leu Phe Ala Ile Phe Ala Phe
      35              40              45
Ala Thr Cys Gly Gly Tyr Ser Gly Gly Leu Arg Leu Ser Val Asp Cys
      50              55              60
Val Asn Lys Thr Glu Ser Asn Leu Ser Ile Asp Ile Ala Phe Ala Tyr

```

65					70					75				80	
Pro	Phe	Arg	Leu	His	Gln	Val	Thr	Phe	Glu	Val	Pro	Thr	Cys	Glu	Gly
				85					90					95	
Lys	Glu	Arg	Gln	Lys	Leu	Ala	Leu	Ile	Gly	Asp	Ser	Ser	Ser	Ser	Ala
			100					105					110		
Glu	Phe	Phe	Val	Thr	Val	Ala	Val	Phe	Ala	Phe	Leu	Tyr	Ser	Leu	Ala
		115					120					125			
Ala	Thr	Gly	Arg	Tyr	Ile	Phe	Phe	His	Asn	Lys	Asn	Arg	Glu	Asn	Asn
	130					135					140				
Arg	Gly	Pro	Leu												
145			148												

<210> 786
 <211> 246
 <212> Amino acid
 <213> Homo sapiens

<400> 786

Leu	Gly	Thr	Val	Ser	Tyr	Gly	Ala	Asp	Thr	Met	Asp	Glu	Ile	Gln	Ser
1				5					10					15	
His	Val	Arg	Asp	Ser	Tyr	Ser	Gln	Met	Gln	Ser	Gln	Ala	Gly	Gly	Asn
			20					25					30		
Asn	Thr	Gly	Ser	Thr	Pro	Leu	Arg	Lys	Ala	Gln	Ser	Ser	Ala	Pro	Lys
		35					40					45			
Val	Arg	Lys	Ser	Val	Ser	Ser	Arg	Ile	His	Glu	Ala	Val	Lys	Ala	Ile
	50					55					60				
Val	Leu	Cys	His	Asn	Val	Thr	Pro	Val	Tyr	Glu	Ser	Arg	Ala	Gly	Val
	65				70					75					80
Thr	Glu	Glu	Thr	Glu	Phe	Ala	Glu	Ala	Asp	Gln	Asp	Phe	Ser	Asp	Glu
				85					90					95	
Asn	Arg	Thr	Tyr	Gln	Ala	Ser	Ser	Pro	Asp	Glu	Val	Ala	Leu	Val	Gln
			100					105					110		
Trp	Thr	Glu	Ser	Val	Gly	Leu	Thr	Leu	Val	Ser	Arg	Asp	Leu	Thr	Ser
		115					120					125			
Met	Gln	Leu	Lys	Thr	Pro	Ser	Gly	Gln	Val	Leu	Ser	Phe	Cys	Ile	Leu
	130					135					140				
Gln	Leu	Phe	Pro	Phe	Thr	Ser	Glu	Ser	Lys	Arg	Met	Gly	Val	Ile	Val
	145					150				155				160	
Arg	Asp	Glu	Ser	Thr	Ala	Glu	Ile	Thr	Phe	Tyr	Met	Lys	Gly	Ala	Asp
				165					170					175	
Val	Ala	Met	Ser	Pro	Ile	Val	Gln	Tyr	Asn	Asp	Trp	Leu	Glu	Glu	Glu
			180					185				190			
Cys	Gly	Asn	Met	Ala	Arg	Glu	Gly	Leu	Arg	Thr	Leu	Val	Val	Ala	Lys
		195					200					205			
Lys	Ala	Leu	Thr	Glu	Glu	Gln	Tyr	Gln	Asp	Phe	Glu	Val	Ser	Arg	Leu
	210					215					220				
Pro	Gly	Ile	Pro	Ser	Ser	Tyr	Asp	Gly	Ala	Phe	Leu	Thr	Leu	Lys	Leu
	225					230				235				240	
Val	Leu	Pro	Val	Phe	Val										
				245	246										

<210> 787
 <211> 176
 <212> Amino acid
 <213> Homo sapiens

<400> 787

Glu	Gly	Pro	His	Arg	Arg	Leu	Phe	Gln	Met	Val	Lys	Ala	Leu	Gln	Glu
1				5					10					15	
Ala	Pro	Glu	Asp	Pro	Asn	Gln	Ile	Leu	Ile	Gly	Tyr	Ser	Arg	Gly	Leu
			20					25					30		
Val	Val	Ile	Trp	Asp	Leu	Gln	Gly	Ser	Arg	Val	Leu	Tyr	His	Phe	Leu
		35					40					45			
Ser	Ser	Gln	Gln	Leu	Glu	Asn	Ile	Trp	Trp	Gln	Arg	Asp	Gly	Arg	Leu
	50					55					60				
Leu	Val	Ser	Cys	His	Ser	Asp	Gly	Ser	Tyr	Cys	Gln	Trp	Pro	Val	Ser
65					70					75				80	
Ser	Glu	Ala	Gln	Gln	Pro	Glu	Pro	Leu	Arg	Ser	Leu	Val	Pro	Tyr	Gly
				85					90					95	
Pro	Phe	Pro	Cys	Lys	Ala	Ile	Thr	Arg	Ile	Leu	Trp	Leu	Thr	Thr	Arg
			100					105					110		
Gln	Gly	Leu	Pro	Phe	Thr	Ile	Phe	Gln	Gly	Gly	Met	Pro	Arg	Ala	Ser
		115					120					125			
Tyr	Gly	Asp	Arg	His	Cys	Ile	Ser	Val	Ile	His	Asp	Gly	Gln	Gln	Thr
130						135					140				
Ala	Phe	Asp	Phe	Thr	Ser	Arg	Val	Ile	Gly	Phe	Thr	Val	Leu	Thr	Glu
145					150					155				160	
Ala	Asp	Pro	Ala	Ala	Ser	Arg	Arg	Ala	Ser	Gly	Val	Gly	Ala	Gln	Gly
				165				170						175	176

<210> 788

<211> 180

<212>Amino acid

<213> Homo sapiens

<400> 788

Lys	Gln	Gly	Leu	Glu	Val	Arg	Asp	Leu	His	Phe	Lys	Glu	Ile	Thr	Ser
1				5					10					15	
Gly	Arg	Ala	Leu	Leu	Arg	Val	Ala	Cys	Lys	Arg	Pro	Ser	Met	Val	Pro
			20					25					30		
Gly	Gly	Gln	Leu	Gln	Arg	Ala	Gly	Ala	Gly	Ala	Gln	Ala	Arg	Ile	Thr
		35					40					45			
Gly	Leu	Ser	Pro	Ala	Leu	Trp	Gly	Ala	Arg	Val	His	Gly	Trp	Ile	Pro
	50					55					60				
Glu	Leu	Pro	Ala	Gly	Leu	Pro	Pro	Gly	Ala	Cys	Leu	Trp	Pro	Leu	Ile
65					70					75				80	
Pro	Ala	Cys	Pro	Ser	Arg	His	Trp	Gly	Trp	Val	Ser	Ala	Pro	Val	Lys
				85					90					95	
Gly	Trp	Ala	Gln	Ala	Ile	Leu	Gly	Leu	Ala	Leu	Cys	Leu	Arg	Gly	Glu
		100						105					110		
His	Arg	Gly	Leu	Gly	Ala	Gly	Val	Ser	Lys	Val	Arg	Ser	Leu	Lys	Met
		115					120					125			
Asp	Arg	Lys	Val	Trp	Thr	Glu	Thr	Leu	Ile	Glu	Val	Gly	Met	Pro	Leu
130						135						140			
Leu	Ala	Thr	Asp	Thr	Trp	Gly	Leu	Pro	His	Ser	Thr	Ala	Val	Trp	Val
145					150					155				160	
Ser	Gln	Pro	Pro	Pro	Tyr	Leu	Ser	Asp	His	Ser	Thr	Leu	Glu	Leu	Glu
				165				170						175	
Arg	Asp	Pro	Leu												
			180												

<210> 789
 <211> 145
 <212>Amino acid
 <213> Homo sapiens

<400> 789
 Leu Ser Cys Asn Ser Glu Gln Ala Leu Leu Ser Leu Val Pro Val Gln
 1 5 10 15
 Arg Glu Leu Leu Arg Arg Arg Tyr Gln Ser Ser Pro Ala Lys Pro Asp
 20 25 30
 Ser Ser Phe Tyr Lys Gly Leu Gly Thr Cys Pro Ser Gln Leu Arg Leu
 35 40 45
 Ser Glu Pro Pro Pro Thr Pro Arg His Leu Ser Val Ala Ser Val Ser
 50 55 60
 His His Met Phe Pro Ser His Arg Ser Leu Cys Pro His Leu Pro Asp
 65 70 75 80
 Phe Phe Ala Ala Pro Phe Pro Ser Asp Asn Leu Pro Tyr Thr Leu Gln
 85 90 95
 Ser Pro Phe Pro Ser Pro Pro Pro Ala Thr Pro Ser Asp His Ala Leu
 100 105 110
 Ile Leu His His Asp Leu Asn Gly Gly Pro Asp Asp Pro Leu Gln Gln
 115 120 125
 Thr Gly Gln Leu Phe Gly Gly Leu Val Arg Asp Ile Arg Arg Arg Tyr
 130 135 140
 Pro
 145

<210> 790
 <211> 65
 <212>Amino acid
 <213> Homo sapiens

<400> 790
 Ser Pro Ser Ser Lys Leu Val Gly Met Trp Trp Ala Gly Arg Ala Gly
 1 5 10 15
 Ser Ser Arg Thr Thr Ser Val Ser Leu Leu Cys Leu Pro Ser Ala Pro
 20 25 30
 Phe Gly Ala Ser Asn Leu Leu Val Asn Pro Leu Glu Pro Gln Asn Ala
 35 40 45
 Asp Lys Ile Lys Ile Lys Ile Ala Asp Leu Gly Asn Ala Cys Trp Val
 50 55 60
 Val
 65

<210> 791
 <211> 144
 <212>Amino acid
 <213> Homo sapiens

<400> 791

```

Arg Val Asp Pro Arg Val Arg Ala Pro Arg Cys Gly Asp Lys Ile Lys
 1          5          10          15
Asn His Met Tyr Lys Cys Asp Cys Gly Ser Leu Lys Asp Cys Ala Ser
          20          25          30
Asp Arg Cys Cys Glu Thr Ser Cys Thr Leu Ser Leu Gly Ser Val Cys
          35          40          45
Asn Thr Gly Leu Cys Cys His Lys Cys Lys Tyr Ala Ala Pro Gly Val
          50          55          60
Val Cys Arg Asp Leu Gly Gly Ile Cys Asp Leu Pro Glu Tyr Cys Asp
          65          70          75          80
Gly Lys Lys Glu Glu Cys Pro Asn Asp Ile Tyr Ile Gln Asp Gly Thr
          85          90          95
Pro Cys Ser Ala Val Ser Val Cys Ile Arg Gly Asn Cys Ser Asp Arg
          100          105          110
Asp Met Gln Cys Gln Ala Leu Phe Gly Tyr Gln Val Lys Asp Gly Ser
          115          120          125
Pro Ala Cys Tyr Arg Lys Leu Asn Arg Ile Gly Asn Arg Phe Gly Thr
          130          135          140          144

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<210> 792

<211> 242

<212> Amino acid

<213> Homo sapiens

<400> 792

```

Pro Gly Arg Pro Thr Arg Pro Asp Ala Ser Leu Ala Gln Asp Pro Arg
 1          5          10          15
Thr Thr Met Phe Arg Ile Pro Glu Phe Lys Trp Ser Pro Met His Gln
          20          25          30
Arg Leu Leu Thr Asp Leu Leu Phe Ala Leu Glu Thr Asp Val His Val
          35          40          45
Trp Arg Ser His Ser Thr Lys Ser Val Met Asp Phe Val Asn Ser Asn
          50          55          60
Glu Asn Ile Ile Phe Val His Asn Thr Ile His Leu Ile Ser Gln Met
          65          70          75          80
Val Asp Asn Ile Ile Ile Ala Cys Gly Gly Ile Leu Pro Leu Leu Ser
          85          90          95
Ala Ala Thr Ser Pro Thr Gly Ser Lys Thr Glu Leu Glu Asn Ile Glu
          100          105          110
Val Thr Gln Gly Met Ser Ala Glu Thr Ala Val Thr Phe Leu Ser Arg
          115          120          125
Leu Met Ala Met Val Asp Val Leu Val Phe Ala Ser Ser Leu Asn Phe
          130          135          140
Ser Glu Ile Glu Ala Glu Lys Asn Met Ser Ser Gly Gly Leu Met Arg
          145          150          155          160
Gln Cys Leu Lys Leu Val Cys Cys Val Ala Val Arg Asn Cys Leu Glu
          165          170          175
Cys Arg Gln Arg Gln Arg Asp Arg Gly Asn Lys Ser Ser His Gly Ser
          180          185          190
Ser Lys Pro Gln Glu Val Pro Gln Ser Val Thr Ala Thr Ala Ala Ser
          195          200          205
Lys Thr Pro Leu Glu Asn Val Pro Gly Asn Leu Ser Pro Ile Lys Asp
          210          215          220
Pro Asp Arg Leu Leu Gln Asp Val Asp Ile Asn Arg Leu Arg Ala Val
          225          230          235          240
Val Phe

```

242

<210> 793
 <211> 412
 <212> Amino acid
 <213> Homo sapiens

<400> 793

```

Asn Ser Ser Gly Val Lys Leu Leu Gln Ala Leu Gly Leu Ser Pro Gly
 1           5           10           15
Asn Gly Lys Asp His Ser Ile Leu His Ser Arg Asn Asp Leu Glu Glu
 20           25           30
Ala Phe Ile His Phe Met Gly Lys Gly Ala Ala Ala Glu Arg Phe Phe
 35           40           45
Ser Asp Lys Glu Thr Phe His Asp Ile Ala Gln Val Ala Ser Glu Phe
 50           55           60
Pro Gly Ala Gln His Tyr Val Gly Gly Asn Ala Ala Leu Ile Gly Gln
 65           70           75           80
Lys Phe Ala Ala Asn Ser Asp Leu Lys Val Leu Leu Cys Gly Pro Val
 85           90           95
Gly Pro Lys Leu His Glu Leu Leu Asp Asp Asn Val Phe Val Pro Pro
100           105           110
Glu Ser Leu Gln Glu Val Asp Glu Phe His Leu Ile Leu Glu Tyr Gln
115           120           125
Ala Gly Glu Glu Trp Gly Gln Leu Lys Ala Pro His Ala Asn Arg Phe
130           135           140
Ile Phe Ser His Asp Leu Ser Asn Gly Ala Met Asn Met Leu Glu Val
145           150           155           160
Phe Val Ser Ser Leu Glu Glu Phe Gln Pro Asp Leu Gly Gly Leu Ser
165           170           175
Gly Leu His Met Met Glu Gly Gln Ser Lys Glu Leu Gln Arg Lys Arg
180           185           190
Leu Leu Glu Val Val Thr Ser Ile Ser Asp Ile Pro Thr Gly Ile Pro
195           200           205
Val His Leu Glu Leu Gly Ser Met Thr Asn Arg Glu Leu Met Ser Ser
210           215           220
Ile Val Leu Gln Gln Val Phe Pro Ala Val Thr Ser Leu Gly Leu Asn
225           230           235           240
Glu Gln Glu Leu Leu Phe Leu Thr Gln Ser Ala Ser Gly Pro His Ser
245           250           255
Ser Leu Ser Ser Trp Asn Gly Val Pro Asp Val Gly Met Val Ser Asp
260           265           270
Ile Leu Phe Trp Ile Leu Lys Glu His Gly Arg Ser Lys Ser Arg Ala
275           280           285
Ser Asp Leu Thr Arg Ile His Phe His Thr Leu Val Tyr His Ile Leu
290           295           300
Ala Thr Val Asp Gly His Trp Ala Asn Gln Leu Ala Ala Val Ala Ala
305           310           315           320
Gly Ala Arg Val Ala Gly Thr Gln Ala Cys Ala Thr Glu Thr Ile Asp
325           330           335
Thr Ser Arg Val Ser Leu Arg Ala Pro Gln Glu Phe Met Thr Ser His
340           345           350
Ser Glu Ala Gly Ser Arg Ile Val Leu Asn Pro Asn Lys Pro Val Val
355           360           365
Glu Trp His Arg Glu Gly Ile Ser Phe His Phe Thr Pro Val Leu Val
370           375           380
Cys Lys Asp Pro Ile Arg Thr Val Gly Leu Gly Asp Ala Ile Ser Ala
385           390           395           400
Glu Gly Leu Phe Tyr Ser Glu Val His Pro His Tyr

```

405

410

412

<210> 794
 <211> 83
 <212>Amino acid
 <213> Homo sapiens

<400> 794
 Asp Asp Ser Ser Gly Trp Gly Leu Glu Gln Leu Val Val Arg Trp Ser
 1 5 10 15
 Leu Ala Leu Trp Pro Arg Leu Glu Cys Ser Gly Met Ile Ser Ala His
 20 25 30
 Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala Pro
 35 40 45
 Arg Val Ala Gly Ile Thr Asp Val Cys His His Ala Trp Leu Val Phe
 50 55 60
 Val Phe Leu Val Val Met Gly Phe Pro His Val Gly His Val Gly Leu
 65 70 75 80
 Glu Leu Leu
 83

<210> 795
 <211> 391
 <212>Amino acid
 <213> Homo sapiens

<400> 795
 Leu Gly Glu Val Leu Lys Cys Gln Gln Gly Val Ser Ser Leu Ala Phe
 1 5 10 15
 Ala Leu Ala Phe Leu Gln Arg Met Asp Met Lys Pro Leu Val Val Leu
 20 25 30
 Gly Leu Pro Ala Pro Thr Ala Pro Ser Gly Cys Leu Ser Phe Trp Glu
 35 40 45
 Ala Lys Ala Gln Leu Ala Lys Ser Cys Lys Val Leu Val Asp Ala Leu
 50 55 60
 Arg His Asn Ala Ala Ala Val Pro Phe Phe Gly Gly Gly Ser Val
 65 70 75 80
 Leu Arg Ala Ala Glu Pro Ala Pro His Ala Ser Tyr Gly Gly Ile Val
 85 90 95
 Ser Val Glu Thr Asp Leu Leu Gln Trp Cys Leu Glu Ser Gly Ser Ile
 100 105 110
 Pro Ile Leu Cys Pro Ile Gly Glu Thr Ala Ala Arg Arg Ser Val Leu
 115 120 125
 Leu Asp Ser Leu Glu Val Thr Ala Ser Leu Ala Lys Ala Leu Arg Pro
 130 135 140
 Thr Lys Ile Ile Phe Leu Asn Asn Thr Gly Gly Leu Arg Asp Ser Ser
 145 150 155 160
 His Lys Val Leu Ser Asn Val Asn Leu Pro Ala Asp Leu Asp Leu Val
 165 170 175
 Cys Asn Ala Glu Trp Val Ser Thr Lys Glu Arg Gln Gln Met Arg Leu
 180 185 190
 Ile Val Asp Val Leu Ser Arg Leu Pro His His Ser Ser Ala Val Ile
 195 200 205
 Thr Ala Ala Ser Thr Leu Leu Thr Glu Leu Phe Ser Asn Lys Gly Ser

```

      210      215      220
Gly Thr Leu Phe Lys Asn Ala Glu Arg Met Leu Arg Val Arg Ser Leu
225      230      235      240
Asp Lys Leu Asp Gln Gly Arg Leu Val Asp Leu Val Asn Ala Ser Phe
      245      250      255
Gly Lys Lys Leu Arg Asp Asp Tyr Leu Ala Ser Leu Arg Pro Arg Leu
      260      265      270
His Ser Ile Tyr Val Ser Glu Gly Tyr Asn Ala Ala Ala Ile Leu Thr
      275      280      285
Met Glu Pro Val Leu Gly Gly Thr Pro Tyr Leu Asp Lys Phe Val Val
      290      295      300
Ser Ser Ser Arg Gln Gly Gln Gly Ser Gly Gln Met Leu Trp Glu Cys
305      310      315      320
Leu Arg Arg Asp Leu Gln Thr Leu Phe Trp Arg Ser Arg Val Thr Asn
      325      330      335
Pro Ile Asn Pro Trp Tyr Phe Lys His Ser Asp Gly Ser Phe Ser Asn
      340      345      350
Lys Gln Trp Ile Phe Phe Trp Phe Gly Leu Ala Asp Ile Arg Asp Ser
      355      360      365
Tyr Glu Leu Val Asn His Ala Lys Gly Leu Pro Asp Ser Phe His Lys
      370      375      380
Pro Ala Ser Asp Pro Gly Ser
385      390 391

```

<210> 796

<211> 127

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(127)

<223> X = any amino acid or stop code

<400> 796

```

Tyr His Ala Pro Ala Leu Gln Pro Gly Gln Gln Ser Lys Thr Leu Ser
  1      5      10      15
Gln Glu Lys Lys Asn Phe Phe Arg Pro Gly Ala Val Ala His Thr Cys
      20      25      30
Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Thr Arg Ser Gly
      35      40      45
Asp Arg Asp His Pro Gly Xaa His Gly Glu Thr Pro Ser Leu Leu Lys
      50      55      60
Ile Gln Lys Lys Leu Ala Gly Arg Asp Gly Gly Arg Leu Xaa Ser Gln
      65      70      75      80
Leu Leu Gly Arg Leu Arg Gln Glu Asn Gly Val Asn Pro Gly Gly Gly
      85      90      95
Gly Cys Ser Glu Pro Arg Leu Arg His Cys Thr Pro Ala Trp Xaa Gln
      100      105      110
Ser Glu Thr Ile Ser Arg Lys Lys Arg Lys Lys Glu Arg Lys Tyr
      115      120      125      127

```

<210> 797

<211> 159

<212>Amino acid

<213> Homo sapiens

<400> 797

```

Phe Arg Pro Ile Gly Ile Ile Arg Gln Ala Leu Cys Ser Ala Asp Gly
 1           5           10           15
His Gln Arg Arg Ile Leu Thr Leu Arg Leu Gly Leu Leu Val Ile Pro
          20           25           30
Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Pro
          35           40           45
Ser Val Gly Cys Cys Val Met Leu Leu Phe Gly Phe Gly Ala Leu Arg
          50           55           60
Lys His Thr Glu Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly Ile
          65           70           75           80
Leu Leu Ser Asn Asp Ala Glu Arg Leu Arg Cys Ala Val Arg Gly Gly
          85           90           95
Glu Trp Arg Ser Glu Glu Ala Val Phe Arg Gly Ala Val Ser Val Cys
          100          105          110
Pro Leu Ser Ala Glu Val Arg Cys Asn Ile Gly Arg Asn Leu Ala Ala
          115          120          125
Lys Gly Asn Gln Thr Gly Ala Ile Arg Tyr His Arg Glu Ala Val Ser
          130          135          140
Leu Asn Pro Lys Thr Lys Ser Ser Thr Arg Glu Phe Arg Pro Cys
          145          150          155          159

```

<210> 798

<211> 236

<212>Amino acid

<213> Homo sapiens

<400> 798

```

Lys Ile Ala Asp Phe Gly Phe Ser Asn Leu Phe Thr Pro Gly Gln Leu
 1           5           10           15
Leu Lys Thr Trp Cys Gly Ser Pro Pro Tyr Ala Ala Pro Glu Leu Phe
          20           25           30
Glu Gly Lys Glu Tyr Asp Gly Pro Lys Val Asp Ile Trp Ser Leu Gly
          35           40           45
Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp Gly Ser
          50           55           60
Thr Leu Gln Asn Leu Arg Ala Arg Val Leu Ser Gly Lys Phe Arg Ile
          65           70           75           80
Pro Phe Phe Met Ser Thr Glu Cys Glu His Leu Ile Arg His Met Leu
          85           90           95
Val Leu Asp Pro Asn Lys Arg Leu Ser Met Glu Gln Ile Cys Lys His
          100          105          110
Lys Trp Met Lys Leu Gly Asp Ala Asp Pro Asn Phe Asp Arg Leu Ile
          115          120          125
Ala Glu Cys Gln Gln Leu Lys Glu Glu Arg Gln Val Asp Pro Leu Asn
          130          135          140
Glu Asp Val Leu Leu Ala Met Glu Asp Met Gly Leu Asp Lys Glu Gln
          145          150          155          160
Thr Leu Gln Ser Leu Arg Ser Asp Ala Tyr Asp His Tyr Ser Ala Ile
          165          170          175
Tyr Ser Leu Leu Cys Asp Arg His Lys Arg His Lys Thr Leu Arg Leu
          180          185          190
Gly Ala Leu Pro Ser Met Pro Arg Ala Leu Gly Leu Ser Ser Thr Ser
          195          200          205
Gln Tyr Pro Ala Glu Gln Ala Gly Thr Ala Met Asn Ile Ser Val Pro
          210          215          220

```

Gln Val Gln Leu Ile Asn Pro Glu Asn Gln Ile Val
 225 230 235 236

<210> 799
 <211> 114
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(114)
 <223> X = any amino acid or stop code

<400> 799
 Ala Arg Glu Phe Leu Gly His Arg Ala Ser Ile Thr Trp Ser Xaa Ala
 1 5 10 15
 Arg Val His His Arg Phe Pro Lys Ala Glu Val Ala Xaa Pro Ser Leu
 20 25 30
 Leu Arg Thr Asp Leu Thr Glu Asp Arg Thr Lys Cys Cys His Gly Asp
 35 40 45
 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Val Glu Asp Ile Trp
 50 55 60
 Glu Asn Gln Asp Ser Ile Ser Thr Ile Leu Ile Glu Cys Cys Glu Lys
 65 70 75 80
 Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu
 85 90 95
 Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys
 100 105 110
 Asp Val
 114

<210> 800
 <211> 328
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(328)
 <223> X = any amino acid or stop code

<400> 800
 Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg Gly
 1 5 10 15
 Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser Gly
 20 25 30
 Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser Ser
 35 40 45
 Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys Ala
 50 55 60
 Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr Ala
 65 70 75 80
 Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser Ser
 85 90 95

Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val Asp
 100 105 110
 Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu Gln
 115 120 125
 Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr Ala
 130 135 140
 Arg Arg Asn Arg Arg Pro Gly Ser Xaa Lys Asp Cys Thr Pro Xaa Lys
 145 150 155 160
 Cys Leu Arg Lys Ser Asp Glu Ala Leu Asn Arg Val Leu Gln Gln Ile
 165 170 175
 Arg Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg
 180 185 190
 Gly Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser
 195 200 205
 Gly Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser
 210 215 220
 Ser Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys
 225 230 235 240
 Ala Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr
 245 250 255
 Ala Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser
 260 265 270
 Ser Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val
 275 280 285
 Asp Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu
 290 295 300
 Gln Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr
 305 310 315 320
 Ala Arg Arg Asn Arg Arg Pro Gly
 325 328

<210> 801
 <211> 356
 <212> Amino acid
 <213> Homo sapiens

<400> 801
 Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met Ser
 1 5 10 15
 Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg Glu
 20 25 30
 Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu Glu
 35 40 45
 Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu Arg
 50 55 60
 Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala Ser
 65 70 75 80
 Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu Ile
 85 90 95
 Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser Gln
 100 105 110
 Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu Lys
 115 120 125
 Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala Ser
 130 135 140
 Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln Leu
 145 150 155 160
 Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg Glu
 165 170 175

Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu Ile
 180 185 190
 Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu Gln
 195 200 205
 Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu Thr
 210 215 220
 Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln Glu
 225 230 235 240
 Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln Ala
 245 250 255
 Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln Gln
 260 265 270
 Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu Leu
 275 280 285
 Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys Thr
 290 295 300
 Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu Ile
 305 310 315 320
 Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys
 325 330 335
 Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly
 340 345 350
 Arg Ser Thr *
 355

<210> 802
 <211> 210
 <212> Amino acid
 <213> Homo sapiens

<400> 802
 Ser Tyr Pro Val Trp Trp Asn Ser Pro Leu Thr Ala Glu Val Pro Pro
 1 5 10 15
 Glu Leu Leu Ala Ala Ala Gly Phe Phe His Thr Gly His Gln Asp Lys
 20 25 30
 Val Arg Cys Phe Phe Cys Tyr Gly Gly Leu Gln Ser Trp Lys Arg Gly
 35 40 45
 Asp Asp Pro Trp Thr Glu His Ala Lys Trp Phe Pro Ser Cys Gln Phe
 50 55 60
 Leu Leu Arg Ser Lys Gly Arg Asp Phe Val His Ser Val Gln Glu Thr
 65 70 75 80
 His Ser Gln Leu Leu Gly Ser Trp Asp Pro Trp Glu Glu Pro Glu Asp
 85 90 95
 Ala Ala Pro Val Ala Pro Ser Val Pro Ala Ser Gly Tyr Pro Glu Leu
 100 105 110
 Pro Thr Pro Arg Arg Glu Val Gln Ser Glu Ser Ala Gln Glu Pro Gly
 115 120 125
 Gly Val Ser Pro Ala Glu Ala Gln Arg Ala Trp Trp Val Leu Glu Pro
 130 135 140
 Pro Gly Ala Arg Asp Val Glu Ala Gln Leu Arg Arg Leu Gln Glu Glu
 145 150 155 160
 Arg Thr Cys Lys Val Cys Leu Asp Arg Ala Val Ser Ile Val Phe Val
 165 170 175
 Pro Cys Gly His Leu Val Cys Ala Glu Cys Ala Pro Gly Leu Gln Leu
 180 185 190
 Cys Pro Ile Cys Arg Ser Pro Cys Gly Pro Leu Arg Pro Cys Leu Trp
 195 200 205
 Val Pro
 210

<210> 803
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 803
 Met Cys Ser Tyr Arg Glu Lys Lys Ala Glu Pro Gln Glu Leu Leu Gln
 1 5 10 15
 Leu Asp Gly Tyr Thr Val Asp Tyr Thr Asp Pro Gln Pro Gly Leu Glu
 20 25 30
 Gly Gly Arg Ala Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile
 35 40 45
 Phe Ala Ser Asp Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met
 50 55 60
 Tyr Arg Ala Thr Gly Gln Ser His Lys Pro Val Pro Pro Thr Gln Val
 65 70 75 80
 Gln Lys Leu Asn Ala Lys Gly Gly Asn Val Pro Gln Leu Asp Ala Pro
 85 90 95
 Ile Ser Gln Phe Tyr Ala Asp Arg Ala Gln Lys His Gly Met Asp Glu
 100 105 110
 Phe Ile Ser Ser Asn Pro Cys Asn Phe Asp His Ala Ser Leu Phe Glu
 115 120 125
 Met *
 129

<210> 804
 <211> 458
 <212>Amino acid
 <213> Homo sapiens

<400> 804
 Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
 1 5 10 15
 Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
 20 25 30
 Ala Arg Ala Gly Leu Leu Leu Ala Pro Gly His Gln Gly Pro Gln Arg
 35 40 45
 Pro Val Lys Asp Glu Pro Gln Asp Gly Glu Asn Pro Asn Pro Pro Asn
 50 55 60
 Trp Ser Arg Thr Val Val Arg Asp Val Arg Leu Ile Ser Ala Lys Thr
 65 70 75 80
 Gly Tyr Gly Val Glu Glu Leu Ile Ser Ala Leu Gln Arg Ser Trp Arg
 85 90 95
 Tyr Arg Gly Asp Val Tyr Leu Val Gly Ala Thr Asn Ala Gly Lys Ser
 100 105 110
 Thr Leu Phe Asn Thr Leu Leu Glu Ser Asp Tyr Cys Thr Ala Lys Gly
 115 120 125
 Ser Glu Ala Ile Asp Arg Ala Thr Ile Ser Pro Trp Pro Gly Thr Thr
 130 135 140
 Leu Asn Leu Leu Lys Phe Pro Ile Cys Asn Pro Thr Pro Tyr Arg Met
 145 150 155 160
 Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu Glu
 165 170 175

```

Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys His
      180      185      190
Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu Glu
      195      200      205
Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala Phe
      210      215      220
Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys Gln
      225      230      235      240
Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr Asp
      245      250      255
Thr Pro Gly Ile Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr Glu
      260      265      270
Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg Thr
      275      280      285
Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly Arg
      290      295      300
Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val Ala
      305      310      315      320
Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp Ala
      325      330      335
Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met Gly
      340      345      350
Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp Ile
      355      360      365
Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile Lys
      370      375      380
Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp Arg
      385      390      395      400
Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val Arg
      405      410      415
Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile Lys
      420      425      430
Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr Asn
      435      440      445
Val Arg Lys Lys Lys Gly Lys Ile Asn Val
      450      455      458

```

<210> 805
 <211> 290
 <212> Amino acid
 <213> Homo sapiens

<400> 805

```

Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Glu Cys Leu
  1      5      10      15
Arg Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr
      20      25      30
Met Leu Val Ser Arg Asn Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys
      35      40      45
Lys Ser Asp Gly Gly Val Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu
      50      55      60
Val Ser Pro Ala Gln Glu Pro Ala Pro Leu Gln Thr Ala Met Glu Pro
      65      70      75      80
Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr
      85      90      95
Glu Ser Cys Asn Thr Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro
      100      105      110
Leu Arg Thr Gly Asn Gly Ser Ser Val Pro Glu Gly Arg Ser Ser Arg
      115      120      125

```

```

Asp Arg Thr Ala Pro Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys
130      135      140
Ser Ser Ala Met Arg Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu
145      150      155      160
Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys
      165      170      175
Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val
      180      185      190
Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn Leu Leu Ser Lys
      195      200      205
Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro His Val His Val
      210      215      220
Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr
225      230      235      240
Ile Asp Gly Gln Gly Arg Pro Ser Asn Pro Ala Lys Ser Glu Glu Thr
      245      250      255
Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val His Tyr His
      260      265      270
Cys Ser Gly Ala Pro Cys Pro His Arg Cys Ser Glu Leu Ser His Arg
      275      280      285
Gly Phe
290

```

```

<210> 806
<211> 570
<212>Amino acid
<213> Homo sapiens

```

```

<400> 806
Leu Pro Lys Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val
1      5      10      15
Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His
      20      25      30
Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg
      35      40      45
Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile
      50      55      60
Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr
      65      70      75      80
Asp Ile Asn Gly Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr
      85      90      95
Val Ala His Ser Gly Ile Gly Asp Arg Arg Val Ser Leu Ile Val Phe
      100      105      110
Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile
      115      120      125
Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr
      130      135      140
Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser
      145      150      155      160
Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala
      165      170      175
Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu
      180      185      190
Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr
      195      200      205
Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala
      210      215      220
Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr
225      230      235      240

```

Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val
 245 250 255
 Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly
 260 265 270
 Gly Asp Gly Glu Gly Asp Thr Asn His Ile Glu Arg Leu Trp Ser Tyr
 275 280 285
 Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu
 290 295 300
 Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser
 305 310 315 320
 Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val
 325 330 335
 Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala Ala Met
 340 345 350
 Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro
 355 360 365
 Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys
 370 375 380
 Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser
 385 390 395 400
 Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu
 405 410 415
 Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu
 420 425 430
 Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr
 435 440 445
 Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr
 450 455 460
 Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu
 465 470 475 480
 Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu
 485 490 495
 Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser
 500 505 510
 Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe
 515 520 525
 Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser
 530 535 540
 Ser Asn Cys Arg Val Phe Cys Glu Ser Gly Ile Leu Ile Gln Glu Leu
 545 550 555 560
 Thr Gln Gln Ser Val Ala Val Ala Gly Arg
 565 570

<210> 807

<211> 279

<212>Amino acid

<213> Homo sapiens

<400> 807

Phe Phe Leu Glu Gln Val Ser Gln Tyr Thr Phe Ala Met Cys Ser Tyr
 1 5 10 15
 Arg Glu Lys Lys Ser Glu Pro Gln Glu Leu Met Gln Leu Glu Gly Tyr
 20 25 30
 Thr Val Asp Tyr Thr Asp Pro His Pro Gly Leu Gln Gly Gly Cys Met
 35 40 45
 Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile Phe Ala Ser Asp
 50 55 60
 Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met Tyr Arg Ala Thr
 65 70 75 80


```

Gly Gln Ser Tyr Lys Pro Val Pro Ala Ile Gln Thr Gln Lys Leu Asn
      85                      90                      95
Pro Lys Gly Gly Thr Leu His Ala Asp Ala Gln Leu Tyr Ala Asp Arg
      100                      105                      110
Phe Gln Lys His Gly Met Asp Glu Phe Ile Ser Ala Asn Pro Cys Lys
      115                      120                      125
Leu Asp His Ala Phe Leu Phe Arg Ile Leu Gln Arg Gln Thr Leu Asp
      130                      135                      140
His Arg Leu Asn Asp Ser Tyr Ser Cys Leu Gly Trp Phe Ser Pro Gly
      145                      150                      155                      160
Gln Val Phe Val Leu Asp Glu Tyr Cys Ala Arg Tyr Gly Val Arg Gly
      165                      170                      175
Cys His Arg His Leu Cys Tyr Leu Ala Glu Leu Met Glu His Ser Glu
      180                      185                      190
Asn Gly Ala Val Ile Asp Pro Thr Leu Leu His Tyr Ser Phe Ala Phe
      195                      200                      205
Cys Ala Ser His Val His Gly Asn Arg Pro Asp Gly Ile Gly Thr Val
      210                      215                      220
Ser Val Glu Glu Lys Glu Arg Phe Glu Glu Ile Lys Glu Arg Leu Ser
      225                      230                      235                      240
Ser Leu Leu Glu Asn Gln Ile Ser His Phe Arg Tyr Cys Phe Pro Phe
      245                      250                      255
Gly Arg Pro Glu Gly Ala Leu Lys Ala Thr Leu Ser Leu Leu Glu Arg
      260                      265                      270
Val Leu Met Lys Asp Ile Ala
      275                      279

```

```

<210> 808
<211> 251
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(251)
<223> X = any amino acid or stop code

```

```

<400> 808
Asp Gly Leu Leu His Glu Val Leu Asn Gly Leu Leu Asp Arg Pro Asp
  1          5          10          15
Trp Glu Glu Ala Val Lys Met Pro Val Gly Ile Leu Pro Cys Gly Ser
      20          25          30
Gly Asn Ala Leu Ala Gly Ala Val Asn Gln His Gly Gly Phe Glu Pro
      35          40          45
Ala Leu Gly Leu Asp Leu Leu Leu Asn Cys Ser Leu Leu Leu Cys Arg
      50          55          60
Gly Gly Gly His Pro Leu Asp Leu Leu Ser Val Thr Leu Ala Ser Gly
      65          70          75          80
Ser Arg Cys Phe Ser Phe Leu Ser Val Ala Trp Gly Phe Val Ser Asp
      85          90          95
Val Asp Ile Gln Ser Glu Arg Phe Arg Ala Leu Gly Ser Ala Arg Phe
      100          105          110
Thr Leu Gly Thr Val Leu Gly Leu Ala Thr Leu His Thr Tyr Arg Gly
      115          120          125
Arg Leu Ser Tyr Leu Pro Ala Thr Val Glu Pro Ala Ser Pro Thr Pro
      130          135          140
Ala His Ser Leu Pro Arg Ala Lys Ser Glu Leu Thr Leu Thr Pro Asp
      145          150          155          160
Pro Ala Pro Pro Met Ala His Ser Pro Leu His Arg Ser Val Ser Asp

```

```

                165                170                175
Leu Pro Leu Pro Leu Pro Gln Pro Ala Leu Ala Ser Pro Gly Ser Pro
                180                185                190
Glu Pro Leu Pro Ile Leu Ser Leu Asn Gly Gly Gly Pro Glu Leu Ala
                195                200                205
Gly Asp Trp Gly Gly Ala Gly Asp Ala Pro Leu Ser Pro Asp Pro Gln
                210                215                220
Leu Ser Ser Pro Pro Gly Ser Pro Lys Ala Ala Leu His Ser Pro Val
225                230                235                240
Xaa Lys Lys Ala Pro Val Ile Pro Pro Asp Met
                245                250 251

```

<210> 809
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 809
Lys Gly Val Pro Thr Leu Leu Met Ala Ala Gly Ser Phe Tyr Asp Ile
  1                5                10                15
Leu Ala Ile Thr Gly Phe Asn Thr Cys Leu Gly Ile Ala Phe Ser Thr
                20                25                30
Gly Ser Thr Val Phe Asn Val Leu Arg Gly Val Leu Glu Val Val Ile
                35                40                45
Gly Val Ala Thr Gly Ser Val Leu Gly Phe Phe Ile Gln Tyr Phe Pro
                50                55                60
Ser Arg Asp Gln Asp Lys Leu Val Cys Lys Arg Thr Phe Leu Val Leu
                65                70                75                80
Gly Leu Ser Val Leu Ala Val Phe Ser Ser Val His Phe Gly Phe Pro
                85                90                95
Gly Ser Gly Gly Leu Cys Thr Leu Val Met Ala Phe Leu Ala Gly Met
                100                105                110
Gly Trp Thr Ser Glu Lys Ala Glu Val Glu Lys Ile Ile Ala Val Ala
                115                120                125
Trp Asp Ile Phe Gln Pro Leu Leu Phe Gly Leu Ile Gly Ala Glu Val
                130                135                140
Ser Ile Ser Ser Leu Arg Pro Glu Thr Val Gly Leu Cys Val Ala Thr
145                150                155                160
Val Gly Ile Ala Val Leu Ile Arg Ile Phe Asp Tyr Ile Phe
                165                170                174

```

<210> 810
 <211> 104
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 810
Leu Leu Lys Glu Val Val Val Gln Ala Ser Pro Val Cys Lys Thr Cys
  1                5                10                15
Cys Ser Gln Leu Val Arg Thr Pro Val Thr Phe Thr Glu Val Gln Asn
                20                25                30
Val Cys Arg Cys Ser Ala Gly Tyr Leu Ile Ser Val Cys Ser Tyr Thr
                35                40                45
Ser Ser Asp His Asn Gln Cys Tyr Ala Gly Thr Ala Ser Leu Ala Leu

```

```

      50              55              60
Leu Trp Ile Gly Gly Ile Leu Lys Gly Cys Leu Leu Trp Lys Gln Phe
 65              70              75              80
Arg Trp Thr Glu Arg Ser His Trp Asn Phe Gly Tyr Trp Ala Leu Trp
      85              90              95
Ser Pro Gly Asn Gly Asn Gly Cys
      100              104

```

<210> 811
 <211> 77
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 811
Ile Cys Thr Ser Thr Tyr Leu Gln Ile Phe Pro Gly Lys Pro Ser Cys
 1              5              10              15
Phe Met Cys Lys Gly Arg Leu Met Cys Ile Tyr Phe Ile Leu Trp Tyr
      20              25              30
Leu Gly His Tyr Thr Ser Leu His Trp Asn Trp Cys Arg Tyr Ile Ser
      35              40              45
Asp Pro Asn Val Asp Ala Cys Pro Asp Pro Arg Asn Ala Glu Val Ser
      50              55              60
Met Thr His Thr Val Pro Ala Leu Met Glu Leu Ile Asp
 65              70              75              77

```

<210> 812
 <211> 194
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 812
Leu Glu Ser Leu Pro Gly Phe Lys Glu Ile Val Ser Arg Gly Val Lys
 1              5              10              15
Val Asp Tyr Leu Thr Pro Asp Phe Pro Ser Leu Ser Tyr Pro Asn Tyr
      20              25              30
Tyr Thr Leu Met Thr Gly Arg His Cys Glu Val His Gln Met Ile Gly
      35              40              45
Asn Tyr Met Trp Asp Pro Thr Thr Asn Lys Ser Phe Asp Ile Gly Val
      50              55              60
Asn Lys Asp Ser Leu Met Pro Leu Trp Trp Asn Gly Ser Glu Pro Leu
 65              70              75              80
Trp Val Thr Leu Thr Lys Ala Lys Arg Lys Val Tyr Met Tyr Tyr Trp
      85              90              95
Pro Gly Cys Glu Val Glu Ile Leu Gly Val Arg Pro Thr Tyr Cys Leu
      100              105              110
Glu Tyr Lys Asn Val Pro Thr Asp Ile Asn Phe Ala Asn Ala Val Ser
      115              120              125
Asp Ala Leu Asp Ser Phe Lys Ser Gly Arg Ala Asp Leu Ala Ala Ile
 130              135              140
Tyr His Glu Arg Ile Asp Val Glu Gly His His Tyr Gly Pro Ala Ser
 145              150              155              160
Pro Gln Arg Lys Asp Ala Leu Lys Ala Val Asp Thr Val Leu Lys Tyr
      165              170              175
Met Thr Lys Trp Ile Gln Glu Arg Gly Leu Gln Asp Arg Leu Asn Val

```

Ile Ile 180 185 190
194

<210> 813
<211> 116
<212> Amino acid
<213> Homo sapiens

<220> .
<221> misc_feature
<222> (1)...(116)
<223> X = any amino acid or stop code

<400> 813
Ala Arg Asp Phe His Pro Lys Gln Thr Leu Asp Phe Leu Arg Ser Asp
1 5 10 15
Met Ala Asn Ser Lys Ile Thr Glu Glu Val Lys Arg Ser Ile Ala Gln
20 25 30
Gln Tyr Leu Asp Leu Thr Val Ala Leu Glu Gln Val Asp Pro Asp Ala
35 40 45
Glu Val Asp Ala Ala Pro Ser Thr Thr Ser Ser Cys Gly His Xaa Asp
50 55 60
Ser His Ala Gly Ser Xaa Arg Val Leu Ser Leu Leu Gly Asp Xaa Gly
65 70 75 80
Pro Ala Xaa Thr Gly Ala Asn Ser Met Ala Gly Lys Leu Leu Leu Val
85 90 95
Ala Trp Leu Gly Phe Pro Asp Pro Phe Trp Gly Lys Glu Leu Ser Asp
100 105 110
Pro Ala Phe Lys
115 116

<210> 814
<211> 121
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(121)
<223> X = any amino acid or stop code

<400> 814
Lys Gln Ser Gly Asp Val Thr Cys Asn Cys Thr Asp Gly Arg Leu Ala
1 5 10 15
Pro Ser Cys Leu Thr Cys Val Gly His Cys Ile Phe Gly Gly Tyr Cys
20 25 30
Thr Met Asn Ser Lys Met Met Pro Glu Cys Gln Ser Pro Pro His Met
35 40 45
Thr Gly Pro Arg Cys Glu Glu His Val Phe Ser Gln His Gln Pro Gly
50 55 60
His Ile Thr Ser Ile Leu Ile Pro Met Leu Xaa Leu Leu Leu Val
65 70 75 80
Leu Val Ala Gly Val Ile Phe Cys His Lys Arg Arg Val Gln Gly Ala

```

      85      90      95
Lys Gly Phe Gln His Gln Arg Met Thr Asn Gly Ala Met Asn Ala Gln
      100      105      110
Ile Ala Asn Pro Thr Tyr Lys Met Tyr
      115      120 121

```

```

<210> 815
<211> 86
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(86)
<223> X = any amino acid or stop code

```

```

<400> 815
Thr Val Glu Asn Ala Gly Arg Trp Leu Xaa Glu Glu Ala Glu Ile Gln
.1      5      10      15
Ala Glu Leu Glu Arg Leu Glu Arg Val Arg Asn Leu His Ile Arg Glu
      20      25      30
Leu Lys Arg Ile Asn Asn Glu Asp Asn Ser Gln Phe Lys Asp His Pro
      35      40      45
Thr Leu Asn Glu Arg Tyr Leu Leu Leu His Leu Leu Gly Arg Gly Gly
      50      55      60
Phe Ser Glu Val Tyr Lys Val Met Tyr Gly Leu Phe Trp Phe Phe Tyr
      65      70      75      80
Thr Asn Val Ala Arg Ile
      85 86

```

```

<210> 816
<211> 130
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(130)
<223> X = any amino acid or stop code

```

```

<400> 816
Met Cys Glu Glu Phe Leu Val Met Gly Lys Gly Cys Ser Cys Val Phe
1      5      10      15
Xaa Ile Leu Leu Ser Asn Pro Gln Met Trp Trp Leu Asn Asp Ser Asn
      20      25      30
Pro Glu Thr Asp Asn Arg Gln Glu Ser Pro Ser Gln Glu Asn Ile Asp
      35      40      45
Arg Val Ser Asp Met Ala Phe Val Pro Ser Ala Trp Thr Ala Ser Gly
      50      55      60
Gly Val Ala Trp Gly Asn Leu Gly Glu Ser Gly Ser Arg Thr Gly Gly
      65      70      75      80
Val Arg Ala Glu Thr Leu Ala Pro Arg Leu Gln Val Xaa Pro Ala His
      85      90      95
Leu Arg Gly His Pro Arg Ser Asn Arg Gly Gln Gly Arg Pro Pro Trp

```

```

          100          105          110
Lys Ala Gly Lys Leu Gly Lys Cys Gln Glu Val Leu Phe Arg Phe Ala
      115          120          125
Ala Phe
    130

```

```

<210> 817
<211> 119
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(119)
<223> X = any amino acid or stop code

```

```

<400> 817
Phe Arg Ala Met Phe Leu Ala Val Gln His Asp Cys Arg Pro Met Asp
 1          5          10          15
Lys Ser Ala Gly Ser Gly His Lys Ser Glu Glu Lys Arg Glu Lys Met
      20          25          30
Lys Arg Thr Leu Leu Lys Asp Trp Lys Thr Arg Leu Ser Tyr Phe Leu
      35          40          45
Gln Asn Ser Ser Thr Pro Gly Lys Pro Lys Thr Gly Lys Lys Ser Lys
      50          55          60
Gln Gln Ala Phe Ile Lys Xaa Val Glu Asn Pro Glu Leu Ala Asn Ile
      65          70          75          80
Asn Ser Xaa Leu Leu Asn Xaa Lys Gly Glu Leu Xaa Xaa Ala Xaa Ala
      85          90          95
Asn Ile Gln Asn Leu Ser Cys Arg Pro Ser Pro Glu Glu Ala Gln Leu
      100          105          110
Trp Ser Glu Ala Phe Asp Glu
      115          119

```

```

<210> 818
<211> 131
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> X = any amino acid or stop code

```

```

<400> 818
Gly Phe Phe Asn Phe Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn
 1          5          10          15
Ser Ser Leu Val Leu Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp
      20          25          30
Ala Glu Arg Asp Val Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp
      35          40          45
Ala Arg His Ser Ser Val His Arg Xaa Phe Thr Gln Leu His Trp Gly
      50          55          60
Pro Pro Ser His Thr Pro Ala Arg Pro Xaa Arg Gly Phe Phe Asn Phe

```

```

65          70          75          80
Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn Ser Ser Leu Val Leu
          85          90          95
Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp Ala Glu Arg Asp Val
          100          105          110
Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp Ala Arg His Ser Ser
          115          120          125
Val His Arg
          130 131

```

```

<210> 819
<211> 85
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(85)
<223> X = any amino acid or stop code

```

```

<400> 819
Arg Ile Asp Asp Gln Gln Glu Leu Lys Arg Val Thr Xaa Tyr Ser Gln
 1          5          10          15
Lys Glu Tyr Thr Lys Lys Lys Leu His Lys Lys Cys Asn Ile Ile Gln
          20          25          30
Ala Asp Ile Lys Pro Asp Asn Ile Leu Asp Asn Glu Ser Ile Thr Ile
          35          40          45
Leu Lys Leu Ser Asp Phe Gly Ser Ala Ser His Val Ala Asp Asn Asp
          50          55          60
Ile Thr Pro Ser Ser Ser Gln Thr Thr Ser Ala Ala Ser Ser Pro Pro
 65          70          75          80
Arg Thr Leu Arg Arg
          85

```

```

<210> 820
<211> 44
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(44)
<223> X = any amino acid or stop code

```

```

<400> 820
Ser Ser Lys Pro Trp Asp Xaa Ser Leu Ala Pro Lys His Ser Gly Xaa
 1          5          10          15
Thr Lys Asn Met Asp Cys Tyr Cys Ile Ile Pro Thr Cys Ile Gly Arg
          20          25          30
Glu Arg Cys Tyr Gly Thr Cys Ile Gly Asp Thr Val
          35          40          44

```

```

<210> 821

```

<211> 105
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(105)
 <223> X = any amino acid or stop code

<400> 821
 Asn Ser Ser Lys Lys Leu Val Met Glu His Gln Trp Lys Lys Tyr Leu
 1 5 10 15
 Arg Arg Asn Tyr Gln Arg Met Leu Asn Arg Leu Ile Thr Leu Ile Gly
 20 25 30
 Ser Cys Gly Val Leu Xaa Leu Ile Ser Thr Ile Pro Thr Ser Arg Leu
 35 40 45
 Lys Phe Leu Lys Glu Thr Gly His Gly Thr Pro Met Glu Glu Ile Pro
 50 55 60
 Glu Glu Glu Leu Ser Glu Asp Val Glu Gln Ile Asp His Ala Asp Arg
 65 70 75 80
 Glu Leu Arg Arg Gly Gln Asn Leu Arg Cys Lys Gly Ile His Arg Leu
 85 90 95
 Pro Thr His Ile Gln Val Gly Gln Asn
 100 105

<210> 822
 <211> 172
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(172)
 <223> X = any amino acid or stop code

<400> 822
 Lys Trp Met Leu Leu His Ser Phe Lys Ile Phe Cys Leu Ser Leu Tyr
 1 5 10 15
 Pro Gln Leu Xaa Cys Pro Phe Glu Phe Phe Ser His Ser Ala Thr Ile
 20 25 30
 Phe His Glu Leu Val Tyr Lys Gln Thr Lys Ile Ile Ser Ser Asn Gln
 35 40 45
 Glu Leu Ile Tyr Glu Gly Arg Arg Leu Val Leu Glu Pro Gly Arg Leu
 50 55 60
 Ala Gln His Phe Pro Lys Thr Thr Glu Glu Asn Pro Ile Phe Val Val
 65 70 75 80
 Ser Arg Glu Pro Leu Asn Thr Ile Gly Leu Ile Tyr Glu Lys Ile Ser
 85 90 95
 Leu Pro Lys Val His Pro Arg Tyr Asp Leu Asp Gly Asp Ala Ser Met
 100 105 110
 Ala Lys Ala Ile Thr Gly Val Val Cys Tyr Ala Cys Arg Ile Ala Ser
 115 120 125
 Thr Leu Leu Leu Tyr Gln Glu Leu Met Arg Lys Gly Ile Arg Trp Leu
 130 135 140
 Ile Glu Leu Ile Lys Asp Asp Tyr Asn Glu Thr Val His Lys Lys Thr

145		150		155		160					
Glu	Val	Val	Ile	Thr	Leu	Gly	Phe	Leu	Val	Ser	Arg
				165				170		172	

<210> 823
 <211> 104
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(104)
 <223> X = any amino acid or stop code

<400> 823
 Gly Thr Arg Lys Met Gly Pro Thr Val Ser Pro Ile Cys Leu Pro Gly
 1 5 10 15
 Thr Trp Gly Asp Tyr Asn Leu Met Asp Gly Asp Leu Gly Leu Ile Ser
 20 25 30
 Gly Trp Gly Arg Thr Glu Lys Arg Asp Arg Ala Asp Arg Leu Lys Ala
 35 40 45
 Gly Arg Ser Pro Ala Ala Gly Xaa Arg Lys Trp Glu Pro Gly Arg Gly
 50 55 60
 Asp Pro Thr Trp Glu Glu Ser Glu Glu Asp Val His Lys Ser Lys Trp
 65 70 75 80
 Thr Arg Cys Val Asp Glu Lys Gly Ala Xaa Cys Xaa Thr Asp Asn Lys
 85 90 95
 Arg Pro Leu Arg Cys Gly Val Thr
 100 104

<210> 824
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(99)
 <223> X = any amino acid or stop code

<400> 824
 His Glu Leu Glu Asn Leu Ile Lys Ser Ala His Ser Tyr Ser Leu Tyr
 1 5 10 15
 Xaa Gly Xaa Tyr Leu His Gly Ala Xaa Thr Ala Glu Pro Glu Ala Ser
 20 25 30
 Phe Cys Pro Arg Arg Gly Trp Asn Arg Gln Ala Gly Ala Ala Gly Ser
 35 40 45
 Arg Met Asn Phe Arg Pro Gly Val Leu Ser Ser Arg Gln Leu Gly Leu
 50 55 60
 Pro Gly Pro Pro Asp Gly Pro Asp Tyr Thr Val Tyr Tyr Pro Phe His
 65 70 75 80
 Arg Leu Ala Met Val Thr Ala Ala Ser Arg Leu Glu Arg Glu His Leu
 85 90 95
 Thr His Leu

99

<210> 825
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(111)
 <223> X = any amino acid or stop code

<400> 825
 Pro Val Pro Leu Pro His Pro Ile Leu Glu Val Cys Pro Gly Gln Xaa
 1 5 10 15
 Glu Pro Gln Ser Ala Ile Ser Leu Thr Ala Phe Gln Val Gln Ala Gly
 20 25 30
 Ala Ser Arg Ala Ser Pro Gly Pro Pro Ala Pro Ser Ser Ser Lys Pro
 35 40 45
 Gly Arg Lys Ala Lys Val Ala Ser Pro Cys Pro Asp Arg Pro Ala Pro
 50 55 60
 Pro Pro Thr Xaa Pro Arg Pro Ala Ala Ala Pro Gly Ser Glu Ser Ser
 65 70 75 80
 Pro Arg Pro Pro Arg Pro Arg Thr Gly Arg Arg Gln Gln Arg Ala His
 85 90 95
 Ala Arg Arg Ala Ala Arg Thr Ala Pro Trp Arg Pro Ser Cys
 100 105 110 111

<210> 826
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<400> 826
 His Glu Gly Arg Arg Gly Trp Ala Ser Ala Ser Gln Arg Phe Leu
 1 5 10 15
 Arg Asn Trp Ala Phe Leu Thr Pro Ser Lys Val Arg Arg Leu Lys Gly
 20 25 30
 Gln Lys Ala Phe Gly Lys Leu Pro Ser His Ser Asp Thr Ser Leu Thr
 35 40 45
 Ser Asp Leu Gly Phe His His Arg Phe Asn Pro Asn Ala Ser Ser Ser
 50 55 60
 Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly Arg
 65 70 75 80
 Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Val Ser Gly Leu
 85 90 95

<210> 827
 <211> 33
 <212>Amino acid
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(33)
 <223> X = any amino acid or stop code

<400> 827
 Gly Arg Asn Ile Met His Tyr Pro Asn Gly His Ala Ile Cys Ile Ala
 1 5 10 15
 Asn Gly His Cys Ile Ile Leu Xaa Asn Ser His Asn Ile Lys Val Trp
 20 25 30
 Val
 33

<210> 828
 <211> 178
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(178)
 <223> X = any amino acid or stop code

<400> 828
 Ile Asn Leu Gly Asn Thr Cys Tyr Met Asn Ser Val Ile Xaa Ala Leu
 1 5 10 15
 Phe Met Ala Thr Asp Phe Arg Arg Gln Val Leu Ser Leu Asn Leu Asn
 20 25 30
 Gly Cys Asn Ser Leu Met Lys Lys Leu Gln His Leu Phe Ala Phe Leu
 35 40 45
 Ala His Thr Gln Arg Glu Ala Tyr Ala Pro Arg Ile Phe Phe Glu Ala
 50 55 60
 Ser Arg Pro Pro Trp Phe Thr Pro Arg Ser Gln Gln Asp Cys Ser Glu
 65 70 75 80
 Tyr Leu Arg Phe Leu Leu Asp Arg Leu His Glu Glu Glu Lys Ile Leu
 85 90 95
 Lys Val Gln Ala Ser His Lys Pro Ser Glu Ile Leu Glu Cys Ser Glu
 100 105 110
 Thr Ser Leu Gln Glu Val Ala Ser Lys Ala Ala Val Leu Thr Glu Thr
 115 120 125
 Pro Arg Thr Ser Asp Gly Glu Lys Thr Leu Ile Glu Lys Met Phe Gly
 130 135 140
 Gly Lys Leu Arg Thr His Ile Arg Cys Leu Asn Cys Thr Ser Thr Ser
 145 150 155 160
 Gln Lys Val Glu Ala Phe Thr Asp Leu Ser Leu Ala Phe Trp Pro Ser
 165 170 175
 Ser Ser
 178

<210> 829
 <211> 43
 <212> Amino acid
 <213> Homo sapiens
 <220>

<221> misc_feature
 <222> (1)...(43)
 <223> X = any amino acid or stop code

<400> 829
 Ala Arg Asp Asp Pro Arg Val Arg Leu Ser Leu Ser Pro Asn Phe Phe
 1 . 5 10 15
 Xaa Leu Ala Ser Lys Leu Gly Lys Gln Trp Thr Pro Leu Ile Ile Leu
 20 25 30
 Ala Asn Ser Leu Ser Gly Thr Asn Met Gly Glu
 35 40 43

<210> 830
 <211> 259
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> X = any amino acid or stop code

<400> 830
 Met His Arg Ile Lys Leu Asn Asp Arg Met Thr Phe Pro Glu Glu Leu
 1 5 10 15
 Asp Met Ser Thr Phe Ile Asp Val Glu Asp Glu Lys Ser Pro Gln Thr
 20 25 30
 Glu Ser Cys Thr Asp Ser Gly Ala Glu Asn Glu Gly Ser Cys His Ser
 35 40 45
 Asp Gln Met Ser Asn Asp Phe Ser Asn Asp Asp Gly Val Asp Glu Gly
 50 55 60
 Ile Cys Leu Glu Thr Asn Ser Gly Thr Glu Lys Ile Ser Lys Ser Gly
 65 70 75 80
 Leu Glu Lys Asn Ser Leu Ile Tyr Glu Leu Phe Ser Val Met Val His
 85 90 95
 Ser Gly Ser Ala Ala Gly Gly His Tyr Tyr Ala Cys Ile Lys Ser Phe
 100 105 110
 Ser Asp Glu Gln Trp Tyr Ser Phe Asn Asp Gln His Val Ser Arg Ile
 115 120 125
 Thr Gln Glu Asp Ile Lys Lys Thr His Gly Gly Ser Ser Gly Ser Arg
 130 135 140
 Gly Tyr Tyr Ser Ser Ala Phe Ala Ser Ser Thr Asn Ala Tyr Met Leu
 145 150 155 160
 Ile Tyr Arg Leu Lys Asp Pro Ala Arg Asn Ala Lys Phe Leu Glu Val
 165 170 175
 Asp Glu Tyr Pro Glu His Ile Lys Asn Leu Val Gln Lys Glu Arg Glu
 180 185 190
 Leu Glu Glu Gln Glu Lys Arg Gln Arg Glu Ile Glu Arg Asn Thr Cys
 195 200 205
 Lys Ile Lys Leu Phe Cys Leu His Pro Thr Lys Gln Val Met Met Glu
 210 215 220
 Asp Xaa Ile Glu Val His Lys Asp Lys Thr Leu Lys Glu Ala Val Glu
 225 230 235 240
 Met Ala Tyr Lys Met Met Asp Leu Glu Glu Val Ile Pro Leu Asp Cys
 245 250 255

Cys Arg Leu
259

<210> 831
<211> 200
<212> Amino acid
<213> Homo sapiens

<400> 831
Ser Val Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met
1 5 10 15
Val Thr Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala
20 25 30
Gln His Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly
35 40 45
Gln Ala Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys
50 55 60
Ala Arg Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly
65 70 75 80
Gln Glu Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser
85 90 95
Leu Leu Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu
100 105 110
Ala Thr Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu
115 120 125
Arg Asp Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu
130 135 140
Gly Pro Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys
145 150 155 160
Gln Ser His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg
165 170 175
Arg Glu Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg
180 185 190
Leu His Thr Ala Ala Leu Pro Ala
195 200

<210> 832
<211> 225
<212> Amino acid
<213> Homo sapiens

<400> 832
Ile Thr Ser Val Asp Pro Arg Val Arg Gly Asn Ala Ser Thr Gly Tyr
1 5 10 15
Gly Lys Ile Trp Leu Asp Asp Val Ser Cys Asp Gly Asp Glu Ser Asp
20 25 30
Leu Trp Ser Cys Arg Asn Ser Gly Trp Gly Asn Asn Asp Cys Ser His
35 40 45
Ser Glu Asp Val Gly Val Ile Cys Ser Asp Ala Ser Asp Met Glu Leu
50 55 60
Arg Leu Val Gly Gly Ser Ser Arg Cys Ala Gly Lys Val Glu Val Asn
65 70 75 80
Val Gln Gly Ala Val Gly Ile Leu Cys Ala Asn Gly Trp Gly Met Asn
85 90 95

```

Ile Ala Glu Val Val Cys Arg Gln Leu Glu Cys Gly Ser Ala Ile Arg
      100      105      110
Val Ser Arg Glu Pro His Phe Thr Glu Arg Thr Leu His Ile Leu Met
      115      120      125
Ser Asn Ser Gly Cys Ala Gly Gly Glu Ala Ser Leu Trp Asp Cys Ile
      130      135      140
Arg Trp Glu Trp Lys Gln Thr Ala Cys His Leu Asn Met Glu Ala Ser
      145      150      155      160
Leu Ile Cys Ser Ala His Arg Gln Pro Arg Leu Val Gly Ala Asp Met
      165      170      175
Pro Cys Ser Gly Arg Val Glu Val Lys His Ala His Thr Trp Arg Ser
      180      185      190
Val Cys Asp Ser Asp Phe Ser Leu His Ala Ala Asn Val Leu Cys Arg
      195      200      205
Glu Leu Asn Cys Gly Asp Ala Ile Ser Leu Ser Val Gly Asp His Phe
      210      215      220
Gly
225

```

```

<210> 833
<211> 206
<212>Amino acid
<213> Homo sapiens

```

```

<400> 833
Ser Asn Tyr Pro Ser Ser Arg Phe Arg Val Ala Gly Ile Thr Gly Val
  1      5      10      15
Lys Leu Gly Met Arg Ser Ile Pro Ile Ala Thr Ala Cys Thr Ile Tyr
      20      25      30
His Lys Phe Phe Cys Glu Thr Asn Leu Asp Ala Tyr Asp Pro Tyr Leu
      35      40      45
Ile Ala Met Ser Ser Ile Tyr Leu Ala Gly Lys Val Glu Glu Gln His
      50      55      60
Leu Arg Thr Arg Asp Ile Ile Asn Val Ser Asn Arg Tyr Phe Asn Pro
      65      70      75      80
Ser Gly Glu Pro Leu Glu Leu Asp Ser Arg Phe Trp Glu Leu Arg Asp
      85      90      95
Ser Ile Val Gln Cys Glu Leu Leu Met Leu Arg Val Leu Arg Phe Gln
      100      105      110
Val Ser Phe Gln His Pro His Lys Tyr Leu Leu His Tyr Leu Val Ser
      115      120      125
Leu Gln Asn Trp Leu Asn Arg His Ser Trp Gln Arg Thr Pro Val Ala
      130      135      140
Val Thr Ala Trp Ala Leu Leu Arg Asp Ser Tyr His Gly Ala Leu Cys
      145      150      155      160
Leu Arg Phe Gln Ala Gln His Ile Ala Val Ala Val Leu Tyr Leu Ala
      165      170      175
Leu Gln Val Tyr Gly Val Glu Val Pro Ala Glu Val Glu Ala Asp Glu
      180      185      190
Ala Val Gly Trp Gln Ile Tyr Ala Met Asp Thr Glu Ile Pro
      195      200      205 206

```

```

<210> 834
<211> 86
<212>Amino acid
<213> Homo sapiens

```

<400> 834

```

Arg Gly Ser Arg His Ala Val His Gly Trp Ala Phe Gly Leu Leu Phe
 1           5           10           15
Ile Asn Lys Glu Ser Val Val Met Ala Tyr Leu Phe Thr Thr Phe Asn
          20           25           30
Ala Phe Gln Gly Val Phe Ile Phe Val Phe His Cys Ala Leu Gln Lys
          35           40           45
Lys Val Arg Ser Arg Arg Gly Pro Gly Ser Gln Pro Pro Leu Glu Thr
          50           55           60
Phe Pro Gly Tyr Pro Gly Glu Gly Gly Glu Gly Gly Gly Asp Ser Gly
 65           70           75           80
Ala Pro Ser Ser Pro Gln
          85 86

```

<210> 835

<211> 110

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(110)

<223> X = any amino acid or stop code

<400> 835

```

Ala Arg Lys Asp Asp Leu Pro Pro Asn Met Arg Phe His Glu Glu Lys
 1           5           10           15
Arg Leu Asp Phe Glu Trp Thr Leu Lys Ala Gly Xaa Glu Lys Gly Xaa
          20           25           30
Pro Ser Lys Xaa Asn Lys Gly Trp Glu Gly Gln Glu Xaa Xaa Xaa Thr
          35           40           45
Val Arg Asp Xaa Gly Ile Ser Xaa Xaa Val Lys Pro Gln His Leu Ser
          50           55           60
Xaa Ala Leu Gln Met Ala Leu Lys Arg Val Tyr Thr Leu Leu Ser Ser
 65           70           75           80
Trp Asn Cys Leu Glu Asp Phe Asp Gln Ile Phe Trp Gly Gln Lys Ser
          85           90           95
Ala Leu Ala Gly Gln Trp Phe Pro Glu Val Ser Ile Ile Pro
          100           105           110

```

<210> 836

<211> 70

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(70)

<223> X = any amino acid or stop code

<400> 836

Gly Lys Gln Gln Arg Glu Thr Leu Arg Arg Pro Ser Pro Thr Ile Ser
 1 5 10 15
 Val Gln Arg Ala Gly Ser Pro Glu His Ser Ser Ala Ser His Xaa His
 20 25 30
 Ser Pro Cys Pro Ala Pro Gly Gln Arg Val Leu Pro Thr Ala Leu Cys
 35 40 45
 Thr Leu Met Thr Ser Lys His Phe His Gly Cys Pro Leu Ala Gly Gln
 50 55 60
 Gly Arg Ala Val Thr Leu
 65 70

<210> 837
 <211> 473
 <212> Amino acid
 <213> Homo sapiens

<400> 837
 Gly Val Cys Gly Leu Pro Arg Phe Cys Gly Ser Ile Ile Leu Cys His
 1 5 10 15
 Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp
 20 25 30
 Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly Gly Ser Phe Gly Ser Val
 35 40 45
 Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys Glu Val Ala Val Lys Lys
 50 55 60
 Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile Leu Ser Val Leu Ser His
 65 70 75 80
 Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile Leu Glu Pro Pro Asn Tyr
 85 90 95
 Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly Ser Leu Tyr Asp Tyr Ile
 100 105 110
 Asn Ser Asn Arg Ser Glu Glu Met Asp Met Asp His Ile Met Thr Trp
 115 120 125
 Ala Thr Asp Val Ala Lys Gly Met His Tyr Leu His Met Glu Ala Pro
 130 135 140
 Val Lys Val Ile His Arg Asp Leu Lys Ser Arg Asn Val Val Ile Ala
 145 150 155 160
 Ala Asp Gly Val Leu Lys Ile Cys Asp Phe Gly Ala Ser Arg Phe His
 165 170 175
 Asn His Thr Thr His Met Ser Leu Val Gly Thr Phe Pro Trp Met Ala
 180 185 190
 Pro Glu Val Ile Gln Ser Leu Pro Val Ser Glu Thr Cys Asp Thr Tyr
 195 200 205
 Ser Tyr Gly Val Val Leu Trp Glu Met Leu Thr Arg Glu Val Pro Phe
 210 215 220
 Lys Gly Leu Glu Gly Leu Gln Val Ala Trp Leu Val Val Glu Lys Asn
 225 230 235 240
 Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro Arg Ser Phe Ala Glu Leu
 245 250 255
 Leu His Gln Cys Trp Glu Ala Asp Ala Lys Lys Arg Pro Ser Phe Lys
 260 265 270
 Gln Ile Ile Ser Ile Leu Glu Ser Met Ser Asn Asp Thr Ser Leu Pro
 275 280 285
 Asp Lys Cys Asn Ser Phe Leu His Asn Lys Ala Glu Trp Arg Cys Glu
 290 295 300
 Ile Glu Ala Thr Leu Glu Arg Leu Lys Lys Leu Glu Arg Asp Leu Ser
 305 310 315 320
 Phe Lys Glu Gln Glu Leu Lys Glu Arg Glu Arg Arg Leu Lys Met Trp
 325 330 335


```

Glu Gln Lys Leu Thr Glu Gln Ser Asn Thr Pro Leu Leu Leu Pro Leu
      340                      345                      350
Ala Ala Arg Met Ser Glu Glu Ser Tyr Phe Glu Ser Lys Thr Glu Glu
      355                      360                      365
Ser Asn Ser Ala Glu Met Ser Cys Gln Ile Thr Ala Thr Ser Asn Gly
      370                      375                      380
Glu Gly His Gly Met Asn Pro Ser Leu Gln Ala Met Met Leu Met Gly
385                      390                      395                      400
Phe Gly Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser
      405                      410                      415
Gly Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr
      420                      425                      430
Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser Asp
      435                      440                      445
Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Gly Glu Glu
450                      455                      460
Glu Tyr Asn Asp Met Asp Asn Ser Glu
465                      470                      473

```

```

<210> 838
<211> 48
<212>Amino acid
<213> Homo sapiens

```

```

<400> 838
Met Leu Trp Glu Thr Gly Cys Ser Ala Ala Cys Arg Val Thr Val Ser
 1                      5                      10                      15
Pro Thr Val Thr Phe Ala Thr Phe Ser Thr Arg Gly Ile Asp Ala Met
      20                      25                      30
Arg Pro Gly Pro Ser Phe Leu Trp Arg Gln Gln Leu Ser Gln Gly *
      35                      40                      45                      47

```

```

<210> 839
<211> 116
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(116)
<223> X = any amino acid or stop code

```

```

<400> 839
Pro Thr Leu Gly Asp Gln Pro Asp Leu His Ser Ile Thr Arg Ala Ser
 1                      5                      10                      15
Arg Pro Lys Leu Cys Thr Arg Lys Asn Cys Asn Pro Leu Thr Ile Thr
      20                      25                      30
Val His Asp Pro Asn Ser Thr Gln Xaa Tyr Tyr Gly Met Ser Trp Glu
      35                      40                      45
Leu Arg Phe Tyr Ile Pro Gly Phe Asp Val Gly Thr Met Phe Thr Ile
      50                      55                      60
Gln Lys Ile Leu Val Ser Trp Ser Pro Pro Lys Pro Ile Gly Pro Leu
      65                      70                      75                      80
Thr Asp Leu Gly Asp Pro Met Phe Gln Lys Pro Pro Asn Lys Val Asp

```

```

      85      90      95
Leu Thr Val Pro Pro Phe Leu Val Ile Lys Asp Thr Leu Gln Lys
      100      105      110
Phe Glu Lys Ile
      115 116

```

```

<210> 840
<211> 138
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 840
Ser Leu Asn Asn Val Thr Leu Pro Gln Ala Lys Thr Glu Lys Asp Phe
 1      5      10      15
Ile Gln Leu Cys Thr Pro Gly Val Ile Lys Gln Glu Lys Leu Gly Thr
      20      25      30
Val Tyr Cys Gln Ala Ser Ser Pro Gly Ala Asn Met Ile Gly Asn Lys
      35      40      45
Met Ser Ala Ile Ser Val His Gly Val Ser Thr Ser Gly Gly Gln Met
 50      55      60
Tyr His Tyr Asp Met Asn Thr Ala Ser Leu Ser Gln Gln Xaa Asp Gln
 65      70      75      80
Lys Pro Ile Phe Asn Val Ile Pro Pro Ile Pro Val Gly Ser Glu Asn
      85      90      95
Trp Asn Arg Cys Gln Gly Ser Gly Asp Asp Asn Leu Thr Ser Leu Gly
      100      105      110
Thr Leu Asn Phe Pro Gly Arg Thr Val Ser Phe Ser Phe Glu Met Glu
      115      120      125
Ser Arg Ser Val Ala Gln Ala Gly Val Gln
130      135      138

```

```

<210> 841
<211> 82
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(82)
<223> X = any amino acid or stop code

```

```

<400> 841
Arg His Thr Gln Glu Cys Arg Cys Pro His Thr His Ile His Thr His
 1      5      10      15
Thr His Ser His Thr His Ser His Thr His Ser His Ser His Ser His
      20      25      30
Thr Thr Pro Arg Cys Ser His Thr Gln Pro Pro His Ala Gln Ala Pro
      35      40      45
Ala Leu Cys Xaa Ser Xaa Glu Asp Arg Gly Gln Pro Thr Trp Lys Leu

```

```

      50      55      60
Cys Ala His Arg Pro Arg Leu Lys Val Ile Lys Glu Gly Gly Trp Leu
 65      70      75      80
Gly Gly
 82

```

```

<210> 842
<211> 58
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(58)
<223> X = any amino acid or stop code

```

```

      <400> 842
Asn Tyr Ser Leu Ser Val Tyr Leu Val Arg Gln Leu Thr Ala Gly Thr
 1      5      10      15
Leu Leu Gln Lys Leu Arg Ala Lys Gly Ile Arg Asn Pro Asp His Ser
      20      25      30
Arg Ala Leu Ser Glu Xaa His Leu Ser Ser Leu Pro His Leu Ile Trp
      35      40      45
Ile Gln Val Phe Leu Ala Leu Gln Pro Ser
      50      55      58

```

```

<210> 843
<211> 230
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(230)
<223> X = any amino acid or stop code

```

```

      <400> 843
Ala Thr Tyr Ile Val Asp Phe Gly Phe Ser Thr Thr Phe Arg Glu Gly
 1      5      10      15
Gln Met Leu Thr Ala Phe Cys Gly Met Tyr Pro Tyr Val Ala Pro Glu
      20      25      30
Arg Ser Leu Gly Gln Ala Cys Gln Xaa Pro Ala Arg Asp Ile Gln Ser
      35      40      45
Leu Ser Val Ile Leu Tyr Phe Arg Asn Thr Val Gly Arg Arg Ala Arg
      50      55      60
Thr Leu Pro Phe Tyr Ser Ala Glu Ala Ser Lys Leu Gln Glu Lys Ile
      65      70      75      80
Leu Thr Gly Arg Tyr His Ala Pro Pro Leu Leu Ala Leu Gln Leu Asp
      85      90      95
Ser Leu Ile Lys Leu Leu Met Leu Asn Ala Arg Lys Cys Pro Ser Leu
      100      105      110
Xaa Leu Met Lys Asn Pro Trp Val Lys Ser Ser Gln Lys Met Pro Leu
      115      120      125
Ile Pro Tyr Glu Glu Pro Leu Arg Gly Pro Pro Gln Thr Ile Gln Leu

```

```

      130              135              140
Met Val Ala Met Gly Phe Gln Ala Lys Asn Ile Ser Val Ala Ile Ile
145              150              155              160
Glu Arg Lys Phe Asn Tyr Pro Met Ala Thr Tyr Leu Ile Leu Glu His
      165              170              175
Thr Lys Gln Glu Arg Lys Cys Ser Thr Ile Arg Glu Leu Ser Leu Pro
      180              185              190
Pro Gly Val Pro Thr Ser Pro Ser Pro Ser Thr Glu Leu Ser Thr Phe
      195              200              205
Pro Leu Ser Leu Met Arg Ala His Arg Glu Pro Ala Phe Asn Val Gln
      210              215              220
Pro Pro Glu Glu Ser Gln
225              230

```

```

<210> 844
<211> 258
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> X = any amino acid or stop code

```

```

      <400> 844
Ala Lys Gln Glu Leu Ala Lys Leu Met Arg Ile Glu Asp Pro Ser Leu
 1              5              10              15
Leu Asn Ser Arg Val Leu Leu His His Ala Lys Ala Gly Thr Ile Ile
      20              25              30
Ala Arg Gln Gly Asp Gln Asp Val Ser Leu His Phe Val Leu Trp Gly
      35              40              45
Cys Leu His Val Tyr Gln Arg Met Ile Asp Lys Ala Glu Asp Val Cys
      50              55              60
Leu Phe Val Ala Gln Pro Gly Glu Leu Val Gly Gln Leu Ala Val Leu
      65              70              75              80
Thr Gly Glu Pro Leu Ile Phe Thr Leu Arg Ala Gln Arg Asp Cys Thr
      85              90              95
Phe Leu Arg Ile Ser Lys Ser Asp Phe Tyr Glu Ile Met Arg Ala Gln
      100              105              110
Pro Ser Val Val Leu Ser Ala Ala His Thr Val Ala Ala Arg Met Ser
      115              120              125
Pro Phe Val Arg Gln Met Asp Phe Ala Ile Asp Trp Thr Ala Val Glu
      130              135              140
Ala Gly Arg Ala Leu Tyr Arg Cys Ser Ser His Arg Ala Ala Gln Ala
145              150              155              160
Arg Pro Arg Gly Gly Asp Leu Gly Val Val Arg Pro Cys Xaa Pro Pro
      165              170              175
Arg Pro Leu Arg Gln Gly Asp Arg Ser Asp Cys Thr Tyr Ile Val Leu
      180              185              190
Asn Gly Arg Leu Arg Ser Val Ile Gln Arg Gly Ser Gly Lys Lys Glu
      195              200              205
Leu Val Gly Glu Tyr Gly Arg Gly Asp Leu Ile Gly Val Val Ser Ala
      210              215              220
Thr Pro Thr His Xaa Pro Leu Ala Phe Ser Arg Pro Val Pro Arg Gln
225              230              235              240
Leu Thr Arg Ile Ile Pro Gly Asn Pro Gly Ser Gly Glu Val Phe Pro
      245              250              255
Gly Ala
258

```

<210> 845
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(235)
 <223> X = any amino acid or stop code

<400> 845
 His Ala Ser Gly Trp Thr Pro Gly Thr Thr Gln Thr Leu Gly Gln Gly
 1 5 10 15
 Thr Ala Trp Asp Thr Val Ala Ser Thr Pro Gly Thr Ser Glu Thr Thr
 20 25 30
 Ala Ser Ala Glu Gly Arg Arg Thr Pro Gly Ala Thr Arg Pro Ala Ala
 35 40 45
 Pro Gly Thr Gly Ser Trp Ala Glu Gly Ser Val Lys Ala Pro Ala Pro
 50 55 60
 Ile Pro Glu Ser Pro Pro Ser Lys Ser Arg Ser Met Ser Asn Thr Thr
 65 70 75 80
 Glu Gly Val Trp Glu Gly Thr Arg Ser Ser Val Thr Asn Arg Ala Arg
 85 90 95
 Ala Ser Lys Asp Arg Arg Glu Met Thr Thr Thr Lys Ala Asp Arg Pro
 100 105 110
 Arg Glu Asp Ile Glu Gly Val Arg Ile Ala Leu Asp Ala Ala Lys Lys
 115 120 125
 Val Leu Gly Thr Ile Gly Pro Pro Ala Leu Val Ser Glu Thr Leu Ala
 130 135 140
 Trp Glu Ile Leu Pro Gln Ala Thr Pro Val Ser Lys Gln Gln Ser Gln
 145 150 155 160
 Gly Ser Ile Gly Glu Thr Thr Pro Ala Ala Gly Met Trp Thr Leu Gly
 165 170 175
 Thr Pro Ala Ala Asp Val Trp Ile Leu Gly Thr Pro Ala Ala Asp Val
 180 185 190
 Trp Thr Ser Met Glu Ala Ala Ser Gly Glu Gly Ser Ala Ala Gly Asp
 195 200 205
 Leu Asp Ala Ala Thr Gly Asp Arg Gly Pro Gln Ala Thr Leu Ser Gln
 210 215 220
 Thr Pro Ala Val Xaa Pro Trp Gly Pro Pro Gly
 225 230 235

<210> 846
 <211> 134
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(134)
 <223> X = any amino acid or stop code

<400> 846

```

Ala Gly Thr Ser Gly Thr Gly Asp Thr Gly Pro Gly Asn Thr Ala Val
 1          5          10          15
Ser Gly Thr Pro Val Val Ser Pro Gly Ala Thr Pro Gly Ala Pro Gly
          20          25          30
Ser Ser Thr Pro Gly Glu Ala Asp Ile Gly Asn Thr Ser Phe Gly Lys
          35          40          45
Ser Gly Thr Pro Thr Val Ser Ala Ala Ser Thr Thr Ser Ser Pro Val
          50          55          60
Ser Lys His Thr Asp Ala Ala Ser Ala Thr Ala Val Thr Ile Ser Gly
65          70          75          80
Ser Lys Pro Gly Thr Pro Gly Thr Pro Gly Gly Ala Thr Ser Gly Gly
          85          90          95
Lys Ile Thr Pro Gly Ile Ala Xaa Pro Thr Leu Asp Gln Lys Ser Pro
          100          105          110
Cys Phe Ser Gly Tyr Gly Gly Tyr Phe Pro Val Asn Pro His Gln Asn
          115          120          125
Pro Cys Ala Asp Ser Leu
          130          134

```

```

<210> 847
<211> 188
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(188)
<223> X = any amino acid or stop code

```

```

<400> 847
Arg Ala His Arg Cys Cys Leu Pro Leu Pro Ser Leu Ser Cys Glu Ile
 1          5          10          15
Gln Ile Gly Phe Ser Xaa Ser Ser Ile Phe Pro Gly Gln Xaa Ala Cys
          20          25          30
Pro Cys Ser Cys Cys Arg Ser Cys Arg Arg Asn Trp Pro Gln Ser Pro
          35          40          45
Arg Cys Pro His His Pro Pro Ala Pro Cys Ser Leu Leu Leu Ser Ser
          50          55          60
Cys Leu Pro Pro Pro Leu Ser Cys Ser Trp Arg Gly Thr Ser Gly Lys
65          70          75          80
Pro Pro Ser Gln Ser Pro Ala Ala Ser Arg Ser Met Arg Pro Arg Cys
          85          90          95
Ser Pro Arg Thr Ser Ser Leu Arg Gly Ala Ser Cys Arg Gly Pro Gly
          100          105          110
Gly Ser Ala Pro Ala Ala Ala Ser Gly Pro Arg Cys Arg Gly Cys Ser
          115          120          125
Arg Ser Pro Arg Arg Cys Ser Arg Ser Gly Cys Ala Ala Ala Ser Pro
          130          135          140
Pro Arg Ser Gln Arg Arg Ser Pro Pro Leu Ser Pro Pro Pro Phe Pro
145          150          155          160
Thr Ser Gly Thr Leu Leu Lys Thr Ser Arg Phe Gly Ser Ala Thr
          165          170          175
Arg Glu Xaa Ser Ser Pro Arg Pro Arg Pro Arg Pro
          180          185          188

```

```

<210> 848
<211> 328
<212>Amino acid

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(328)

<223> X = any amino acid or stop code

<400> 848

```

Asp Asp Val Pro Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
 1          5          10          15
Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
          20          25          30
Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
          35          40          45
Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys
          50          55          60
Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
          65          70          75          80
Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
          85          90          95
Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
          100          105          110
Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
          115          120          125
Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
          130          135          140
Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
          145          150          155          160
Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
          165          170          175
His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
          180          185          190
Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
          195          200          205
Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
          210          215          220
Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
          225          230          235          240
Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
          245          250          255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
          260          265          270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
          275          280          285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
          290          295          300
Tyr Val His Leu Thr Gly Gly Arg Arg Ser Phe Xaa Lys Thr Gln Lys
          305          310          315          320
Glu Leu Leu Gly Lys Arg Ala Ala
          325          328

```

<210> 849

<211> 98

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(98)

<223> X = any amino acid or stop code

<400> 849

```

Met Ala Thr Asp Glu Glu Asn Val Tyr Gly Leu Glu Glu Asn Ala Gln
 1          5          10          15
Ser Arg Gln Glu Ser Thr Arg Arg Leu Ile Leu Val Gly Arg Thr Gly
          20          25          30
Ala Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu Gly Gln Arg Arg Phe
          35          40          45
Phe Ser Arg Leu Gly Ala Thr Ser Val Thr Arg Ala Cys Thr Thr Gly
          50          55          60
Ser Arg Arg Trp Asp Lys Cys His Val Glu Val Val Asp Thr Pro Asp
          65          70          75          80
Ile Phe Ser Ser Gln Val Ser Lys Thr Asp Pro Gly Cys Glu Glu Arg
          85          90          95
Xaa *
97

```

<210> 850

<211> 94

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(94)

<223> X = any amino acid or stop code

<400> 850

```

Thr Leu Gly Leu Arg Ser Leu Thr Lys Glu Gly Gly Gly Gly Gly Asp
 1          5          10          15
Val Ala Ala Phe Glu Val Gly Thr Gly Ala Ala Ala Ser Arg Ala Leu
          20          25          30
Gly Gln Cys Gly Gln Leu Gln Lys Leu Ile Val Ile Phe Ile Gly Ser
          35          40          45
Leu Cys Gly Leu Cys Thr Lys Cys Ala Val Ser Asn Asp Leu Thr Gln
          50          55          60
Gln Glu Ile Gln Thr Pro Glu Ile Gln Gln Arg Asn Ala Xaa Cys Asp
          65          70          75          80
Ser Arg Val Thr Phe Thr Asn Glu Gly Gly Arg Trp Trp Gly
          85          90          94

```

<210> 851

<211> 50

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(50)

<223> X = any amino acid or stop code

<400> 851

```

Phe Phe Phe Leu Val Glu Thr Arg Phe His His Ile Gly Gln Ala Gly
 1           5           10           15
Leu Glu Leu Leu Thr Leu Ser Ile Lys Xaa Ser Ala Arg Leu Gly Leu
           20           25           30
Pro Lys Cys Trp Asp Asp Arg Arg Glu Pro Pro Tyr Leu Ala Gly Phe
           35           40           45
Met Ile
 50

```

<210> 852

<211> 143

<212>Amino acid

<213> Homo sapiens

<400> 852

```

Arg Arg Ser Pro Pro Ala Pro Pro Pro Leu Pro Ser Pro Leu Ser
 1           5           10           15
Pro Pro Pro Arg Ala Pro Val Ser Pro Ala Ser Thr Met Pro Ile Leu
           20           25           30
Leu Phe Leu Ile Asp Thr Ser Ala Ser Met Asn Gln Arg Ser His Leu
           35           40           45
Gly Thr Thr Tyr Leu Asp Thr Ala Lys Gly Ala Val Glu Thr Phe Met
           50           55           60
Lys Leu Arg Ala Arg Asp Pro Ala Ser Arg Gly Asp Arg Tyr Met Leu
           65           70           75           80
Val Thr Phe Glu Glu Pro Pro Tyr Ala Ile Lys Ala Gly Trp Lys Glu
           85           90           95
Asn His Ala Thr Phe Met Asn Glu Leu Lys Asn Leu Gln Ala Glu Gly
           100           105           110
Leu Thr Thr Leu Gly Gln Ser Leu Arg Thr Ala Phe Asp Leu Leu Asn
           115           120           125
Leu Asn Arg Leu Val Thr Gly Ile Asp Asn Tyr Gly Gln Val Gly
           130           135           140           143

```

<210> 853

<211> 154

<212>Amino acid

<213> Homo sapiens

<400> 853

```

Asn Cys Arg Thr Tyr Val Phe Cys Phe Val Leu Val Phe Arg Leu Leu
 1           5           10           15
Phe Leu His Gly Ser Pro Leu Ser Pro Ser Leu Leu Ser Arg Ala Gly
           20           25           30
Leu Leu Cys Gly Ser Ala Glu Asn Pro Thr Pro Phe Leu Cys Gly Ile
           35           40           45
Thr Met Ala Ala Gly Val Ser Leu Leu Ala Leu Val Arg Val Ile
           50           55           60
Leu Ser Thr Ala Ile Leu Cys Pro Ser Gly Ala Ser Arg Arg Gln Arg
           65           70           75           80
Ser Ser Glu Val Glu Trp Gly Thr Asp Ser Gly Val Tyr Arg Leu Tyr

```

```

      85      90      95
Cys Trp Arg Val Gly Phe Leu Gly Pro Gly Gly Glu Leu Arg Leu Gly
      100      105      110
Leu Ser Glu Ala Arg Gly Gly Arg Val Trp Gly Arg Gly Glu Lys Arg
      115      120      125
Cys Arg Val Trp Ala Val Arg Ser Leu Arg Lys Gly Phe Gly Ser Val
      130      135      140
Ala Ala Leu Arg Arg Gly Ile Trp Ala Gly
145      150      154

```

```

<210> 854
<211> 90
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(90)
<223> X = any amino acid or stop code

```

```

<400> 854
Val Thr Pro Thr Pro Pro Gln Tyr Tyr Thr Cys Ser Cys Val Leu Gly
  1      5      10      15
Phe Ile Ala Cys Ser Ile Phe Leu Gln Met Ser Leu Lys Pro Lys Val
      20      25      30
Met Leu Leu Thr Val Ala Leu Val Ala Cys Leu Val Leu Phe Asn Leu
      35      40      45
Ser Gln Cys Trp Gln Arg Asp Cys Cys Ser Gln Gly Leu Gly Asn Leu
      50      55      60
Thr Glu Pro Ser Gly Thr Asn Arg Xaa Gly Pro Ala Ala Val Ser Trp
      65      70      75      80
Ala Ser Leu Pro Ala Pro Ser Ser Cys Arg
      85      90

```

```

<210> 855
<211> 61
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(61)
<223> X = any amino acid or stop code

```

```

<400> 855
Gly Lys Ala Gly Gly Ala Ala Gly Leu Phe Ala Lys Gln Val Gln Lys
  1      5      10      15
Lys Phe Ser Arg Ala Gln Glu Lys Xaa Thr Arg Arg Phe Gly Lys Thr
      20      25      30
Cys Gln Pro Glu Glu Arg Ala Arg Glu Glu Arg Gln Glu Gly Pro Glu
      35      40      45
Ile Glu Phe Gly Phe Ser Phe Phe Ser Leu Ser Leu Tyr
      50      55      60      61

```

<210> 856
 <211> 779
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(779)
 <223> X = any amino acid or stop code

<400> 856
 Pro Lys Arg Leu Phe Leu Phe Gln Asp Val Asn Thr Leu Gln Gly Gly
 1 5 10 15
 Gly Gln Pro Val Val Thr Pro Ser Val Gln Pro Ser Leu Gln Pro Ala
 20 25 30
 His Pro Ala Leu Pro Gln Met Thr Ser Gln Ala Pro Gln Pro Ser Val
 35 40 45
 Thr Gly Leu Gln Ala Pro Ser Ala Ala Leu Met Gln Val Ser Ser Leu
 50 55 60
 Asp Ser His Ser Ala Val Ser Gly Asn Ala Gln Ser Phe Gln Pro Tyr
 65 70 75 80
 Ala Gly Met Gln Ala Tyr Ala Tyr Pro Gln Ala Ser Ala Val Thr Ser
 85 90 95
 Gln Leu Gln Pro Val Arg Pro Leu Tyr Pro Ala Pro Leu Ser Gln Pro
 100 105 110
 Pro His Phe Gln Gly Ser Gly Asp Met Ala Ser Phe Leu Met Thr Glu
 115 120 125
 Ala Arg Gln His Asn Thr Glu Ile Arg Met Ala Val Ser Lys Val Ala
 130 135 140
 Asp Lys Met Asp His Leu Met Thr Lys Val Glu Glu Leu Gln Lys His
 145 150 155 160
 Ser Ala Gly Asn Ser Met Leu Ile Pro Ser Met Ser Val Thr Met Glu
 165 170 175
 Thr Ser Met Ile Met Ser Asn Ile Gln Arg Ile Ile Gln Glu Asn Glu
 180 185 190
 Arg Leu Lys Gln Glu Ile Leu Glu Lys Ser Asn Arg Ile Glu Glu Gln
 195 200 205
 Asn Asp Lys Ile Ser Glu Leu Ile Glu Arg Asn Gln Arg Tyr Val Glu
 210 215 220
 Gln Ser Asn Leu Met Met Glu Lys Arg Asn Asn Ser Leu Gln Thr Ala
 225 230 235 240
 Thr Glu Asn Thr Gln Ala Arg Val Leu His Ala Glu Gln Glu Lys Ala
 245 250 255
 Lys Val Thr Glu Glu Leu Ala Ala Ala Thr Ala Gln Val Ser His Leu
 260 265 270
 Gln Leu Lys Met Thr Ala His Gln Lys Lys Glu Thr Glu Leu Gln Met
 275 280 285
 Gln Leu Thr Glu Ser Leu Lys Glu Thr Asp Leu Leu Arg Gly Gln Leu
 290 295 300
 Thr Lys Val Gln Ala Lys Leu Ser Glu Leu Gln Glu Thr Ser Glu Gln
 305 310 315 320
 Ala Gln Ser Lys Phe Lys Ser Glu Lys Gln Asn Arg Lys Gln Leu Glu
 325 330 335
 Leu Lys Val Thr Ser Leu Glu Glu Glu Leu Thr Asp Leu Arg Val Glu
 340 345 350
 Lys Glu Ser Leu Glu Lys Asn Leu Ser Glu Arg Lys Lys Lys Ser Ala
 355 360 365
 Gln Glu Arg Ser Gln Ala Glu Glu Glu Ile Asp Glu Ile Arg Lys Ser
 370 375 380

```

Tyr Gln Glu Glu Leu Asp Lys Leu Arg Gln Leu Leu Lys Lys Thr Arg
385          390          395          400
Val Ser Thr Asp Gln Ala Ala Ala Glu Gln Leu Ser Leu Val Gln Ala
          405          410          415
Glu Leu Gln Thr Gln Trp Glu Ala Lys Cys Glu His Leu Leu Ala Ser
          420          425          430
Ala Lys Asp Glu His Leu Gln Gln Tyr Gln Glu Val Cys Ala Gln Arg
          435          440          445
Asp Ala Tyr Gln Gln Lys Leu Val Gln Leu Gln Glu Lys Ser Val Cys
          450          455          460
Phe Ala Cys Leu Ala Leu Gln Ala Gln Ile Thr Ala Leu Thr Lys Gln
465          470          475          480
Asn Glu Gln His Ile Lys Glu Leu Glu Lys Asn Lys Ser Gln Met Ser
          485          490          495
Gly Val Glu Ala Ala Ala Ser Asp Pro Ser Glu Lys Val Lys Lys Ile
          500          505          510
Met Asn Gln Val Phe Gln Ser Leu Arg Arg Glu Phe Glu Leu Glu Glu
          515          520          525
Ser Tyr Asn Gly Arg Thr Ile Leu Gly Thr Ile Met Asn Thr Ile Lys
          530          535          540
Met Val Thr Leu Gln Leu Leu Asn Gln Gln Glu Gln Glu Lys Glu Glu
545          550          555          560
Ser Ser Ser Glu Glu Glu Glu Lys Ala Glu Glu Arg Pro Arg Arg
          565          570          575
Pro Ser Gln Glu Gln Ser Ala Ser Ala Ser Ser Gly Gln Pro Gln Ala
          580          585          590
Pro Leu Asn Arg Glu Arg Pro Glu Ser Pro Met Val Pro Ser Glu Gln
          595          600          605
Val Val Glu Glu Ala Val Pro Leu Pro Pro Gln Ala Leu Thr Thr Ser
          610          615          620
Gln Asp Gly His Arg Arg Lys Gly Asp Ser Glu Ala Glu Ala Leu Ser
625          630          635          640
Glu Ile Lys Asp Gly Ser Leu Pro Pro Glu Leu Ser Cys Ile Pro Ser
          645          650          655
His Arg Val Leu Gly Pro Pro Thr Ser Ile Pro Pro Glu Pro Leu Gly
          660          665          670
Pro Val Ser Met Asp Ser Glu Cys Glu Glu Ser Leu Ala Ala Ser Pro
          675          680          685
Met Ala Ala Lys Pro Asp Asn Pro Ser Gly Lys Val Cys Val Gln Gly
690          695          700
Lys Xaa Ala Pro Asp Gly Pro Thr Tyr Lys Glu Ser Ser Thr Arg Leu
705          710          715          720
Phe Pro Gly Phe Gln Asp Pro Glu Glu Gly Asp Pro Leu Ala Leu Gly
          725          730          735
Leu Glu Ser Pro Gly Glu Pro Gln Pro Gln Leu Gln Gly Lys Val
          740          745          750
Asp Val His Xaa Val Pro Pro Val Pro His Lys Gly Ala Phe Gln Glu
          755          760          765
Gln Glu Gly Arg Phe Pro Gln Phe Cys Arg Glu
          770          775          779

```

<210> 857

<211> 510

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (510)

<223> X = any amino acid or stop code

<400> 857

Ser	Glu	Thr	Ala	Gln	Gln	Ile	Ile	Asp	Arg	Leu	Arg	Val	Lys	Leu	Ala
1				5				10						15	
Lys	Glu	Pro	Gly	Ala	Asn	Leu	Phe	Leu	Met	Ala	Val	Gln	Asp	Ile	Arg
			20					25					30		
Val	Gly	Gly	Arg	Gln	Ser	Asn	Ala	Ser	Tyr	Gln	Tyr	Thr	Leu	Leu	Ser
		35					40					45			
Asp	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Trp	Glu	Pro	Lys	Ile	Arg	Lys	Lys
	50					55					60				
Leu	Ala	Thr	Leu	Pro	Glu	Leu	Ala	Asp	Val	Asn	Ser	Asp	Gln	Gln	Asp
65					70					75					80
Asn	Gly	Ala	Glu	Met	Asn	Leu	Val	Tyr	Asp	Arg	Asp	Thr	Met	Ala	Arg
				85					90					95	
Leu	Gly	Ile	Asp	Val	Gln	Ala	Ala	Asn	Ser	Leu	Leu	Asn	Asn	Ala	Phe
			100					105					110		
Gly	Gln	Arg	Gln	Ile	Ser	Thr	Ile	Tyr	Gln	Pro	Met	Asn	Gln	Tyr	Lys
		115					120					125			
Val	Val	Met	Glu	Val	Asp	Pro	Arg	Tyr	Thr	Gln	Asp	Ile	Ser	Ala	Leu
	130					135					140				
Glu	Lys	Met	Phe	Val	Ile	Asn	Asn	Glu	Gly	Lys	Ala	Ile	Pro	Leu	Ser
145					150					155					160
Tyr	Phe	Ala	Lys	Trp	Gln	Pro	Ala	Asn	Ala	Pro	Leu	Ser	Val	Asn	His
			165						170					175	
Gln	Gly	Leu	Ser	Ala	Ala	Leu	Thr	Ile	Ser	Phe	Asn	Leu	Pro	Thr	Gly
		180						185					190		
Lys	Ser	Leu	Ser	Asp	Ala	Ser	Ala	Ala	Ile	Asp	Arg	Ala	Met	Ser	Gln
	195						200					205			
Leu	Gly	Val	Pro	Ser	Thr	Val	Arg	Gly	Ser	Phe	Ala	Gly	Pro	Ala	Gln
	210					215					220				
Val	Phe	Gln	Glu	Thr	Met	Asn	Ser	Gln	Val	Ile	Leu	Ile	Ile	Ala	Ala
225					230					235					240
Ile	Ala	Thr	Val	Tyr	Ile	Val	Leu	Gly	Ile	Pro	Tyr	Glu	Arg	Tyr	Val
			245						250					255	
His	Pro	Pro	Thr	Ile	Leu	Leu	Xaa	Arg	Pro	Gly	Ala	Asn	Leu	Phe	Leu
		260						265					270		
Met	Ala	Val	Gln	Asp	Ile	Arg	Val	Gly	Gly	Arg	Gln	Ser	Asn	Ala	Ser
		275					280					285			
Tyr	Gln	Tyr	Thr	Leu	Leu	Ser	Asp	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Trp
	290					295					300				
Glu	Pro	Lys	Ile	Arg	Lys	Lys	Leu	Ala	Thr	Leu	Pro	Glu	Leu	Ala	Asp
305					310					315					320
Val	Asn	Ser	Asp	Gln	Gln	Asp	Asn	Gly	Ala	Glu	Met	Asn	Leu	Val	Tyr
			325						330					335	
Asp	Arg	Asp	Thr	Met	Ala	Arg	Leu	Gly	Ile	Asp	Val	Gln	Ala	Ala	Asn
			340					345					350		
Ser	Leu	Leu	Asn	Asn	Ala	Phe	Gly	Gln	Arg	Gln	Ile	Ser	Thr	Ile	Tyr
	355						360					365			
Gln	Pro	Met	Asn	Gln	Tyr	Lys	Val	Val	Met	Glu	Val	Asp	Pro	Arg	Tyr
	370					375					380				
Thr	Gln	Asp	Ile	Ser	Ala	Leu	Glu	Lys	Met	Phe	Val	Ile	Asn	Asn	Glu
385					390					395					400
Gly	Lys	Ala	Ile	Pro	Leu	Ser	Tyr	Phe	Ala	Lys	Trp	Gln	Pro	Ala	Asn
			405						410					415	
Ala	Pro	Leu	Ser	Val	Asn	His	Gln	Gly	Leu	Ser	Ala	Ala	Leu	Thr	Ile
			420					425					430		
Ser	Phe	Asn	Leu	Pro	Thr	Gly	Lys	Ser	Leu	Ser	Asp	Ala	Ser	Ala	Ala
	435						440					445			
Ile	Asp	Arg	Ala	Met	Ser	Gln	Leu	Gly	Val	Pro	Ser	Thr	Val	Arg	Gly
	450					455					460				
Ser	Phe	Ala	Gly	Pro	Ala	Gln	Val	Phe	Gln	Glu	Thr	Met	Asn	Ser	Gln
465					470					475					480
Val	Ile	Leu	Ile	Ile	Ala	Ala	Ile	Ala	Thr	Val	Tyr	Ile	Val	Leu	Gly

Ile Pro Tyr Glu Arg Tyr Val His Pro Pro Thr Ile Leu Leu
 500 485 505 490 495
 510

<210> 858
 <211> 137
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(137)
 <223> X = any amino acid or stop code

<400> 858
 Ile Ile Thr Pro Asp Ala Met Gly Cys Gln Lys Asp Ile Ala Glu Lys
 1 5 10 15
 Ile Gln Lys Gln Gly Gly Asp Tyr Leu Phe Ala Val Lys Gly Asn Gln
 20 25 30
 Gly Arg Leu Asn Lys Ala Phe Glu Glu Lys Phe Pro Leu Lys Glu Leu
 35 40 45
 Asn Asn Pro Glu His Asp Ser Tyr Ala Ile Ser Glu Lys Ser His Gly
 50 55 60
 Arg Glu Glu Ile Arg Leu His Ile Val Cys Asp Val Pro Asp Glu Leu
 65 70 75 80
 Ile Asp Phe Thr Phe Glu Trp Lys Gly Leu Lys Lys Leu Cys Val Ala
 85 90 95
 Val Ser Phe Arg Ser Ile Ile Ala Glu Gln Lys Lys Glu Pro Glu Met
 100 105 110
 Thr Val Arg Tyr Asn Ile Ser Xaa Leu Gly Ile Ala Gly Asp Ile Ser
 115 120 125
 Val Thr Ala Ile Ser Gly Thr Asp Asp
 130 135 137

<210> 859
 <211> 123
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(123)
 <223> X = any amino acid or stop code

<400> 859
 His Tyr Leu Lys Met Leu Thr Gln Ala Arg Arg Glu Val Ile Ile Ala
 1 5 10 15
 Asn Ala Tyr Phe Phe Pro Gly Tyr Arg Phe Leu His Ala Leu Arg Lys
 20 25 30
 Ala Ala Arg Arg Gly Val Arg Ile Lys Leu Ile Ile Gln Gly Glu Pro
 35 40 45
 Asp Met Pro Ile Val Arg Val Gly Ala Arg Leu Leu Tyr Asn Tyr Leu
 50 55 60
 Val Lys Gly Gly Val Gln Val Phe Glu Tyr Arg Arg Arg Pro Leu His

```

      65              70              75              80
Gly Lys Val Ala Leu Met Asp Asp His Trp Ala Thr Val Gly Ser Ser
      85              90              95
Asn Leu His Pro Val Ser Xaa Ser Gly Asn Leu Gln Ala Asn Val Ile
      100            105            110
Leu His Val Leu Arg Val Pro Thr Leu Asn Pro
      115            120            123

```

```

<210> 860
<211> 190
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(190)
<223> X = any amino acid or stop code

```

```

<400> 860
Cys Trp Ser Lys Ser Ala Ala Phe His Ser Lys Leu Ala Thr Thr Cys
  1              5              10              15
Ile Val Pro Val Cys Ala Ala Gly His Cys Ser Ala Ala Trp Xaa Ser
      20            25            30
Leu Arg Pro Ile Glu Ala Leu Ala Lys Glu Val Arg Glu Leu Lys Xaa
  35            40            45
His Thr Arg Xaa Leu Leu Asn Pro Ala Thr Thr Arg Glu Leu Thr Ser
  50            55            60
Leu Gly Arg Asn Leu Asn Arg Leu Leu Lys Ser Glu Arg Glu Arg Tyr
  65            70            75            80
Asp Lys Tyr Arg Thr Thr Leu Thr Asp Leu Thr His Ser Leu Lys Thr
      85            90            95
Pro Leu Ala Val Leu Gln Ser Thr Leu Arg Ser Leu Arg Ser Glu Lys
      100           105           110
Met Ser Val Ser Asp Ala Glu Pro Val Met Leu Glu Gln Ile Ser Arg
      115           120           125
Ile Ser Gln Gln Ile Gly Tyr Tyr Leu His Arg Ala Ser Met Arg Gly
      130           135           140
Gly Thr Leu Leu Ser Arg Glu Leu His Pro Val Ala Pro Leu Leu Asp
      145           150           155           160
Asn Leu Thr Ser Ala Leu Ile Lys Gly Lys Pro Arg Lys Gly Gly Asn
      165           170           175
Val Thr Val Phe Pro Phe Thr Ala Met Tyr Arg Asp Gly His
      180           185           190

```

```

<210> 861
<211> 241
<212> Amino acid
<213> Homo sapiens

```

```

<400> 861
Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys Arg Lys His Thr
  1              5              10              15
Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr Asp Leu Thr Glu
      20            25            30

```

```

Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu Leu Ile Ile Thr
   35           40           45
Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln Thr Pro Val Lys
   50           55           60
Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg Pro Tyr Phe Cys
   65           70           75           80
Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys Phe Thr Met Cys
           85           90           95
Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro
           100           105           110
Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met
           115           120           125
Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile
           130           135           140
Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp Ile Phe Arg Met
           145           150           155           160
Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly Gly Pro Phe His
           165           170           175
Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val Thr Met Val Met
           180           185           190
Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala Leu
           195           200           205
Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met
           210           215           220
Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu
           225           230           235           240
Met
241

```

<210> 862
 <211> 45
 <212>Amino acid
 <213> Homo sapiens

```

<400> 862
Glu Lys Ala Ala Ala Asn Ile Asp Glu Val Gln Lys Ser Asp Val
  1           5           10           15
Ser Ser Thr Gly Gln Gly Val Ile Asp Lys Asp Ala Leu Gly Pro Met
           20           25           30
Met Leu Glu Val Ala His Leu His Phe Ser Ala Val Phe
           35           40           45

```

<210> 863
 <211> 120
 <212>Amino acid
 <213> Homo sapiens

```

<400> 863
Leu Glu Val Pro Ser Glu Val Thr Pro Leu Gly Phe Ala Met Gln Ala
  1           5           10           15
Thr Lys Thr Leu Leu Arg Thr Cys Cys Leu Gln Glu Phe Asn Ile
           20           25           30
Met Glu Lys Asn Lys Gly Trp Ala Leu Leu Gly Gly Lys Asp Gly His
           35           40           45

```



```

Leu Gln Gly Leu Phe Leu Leu Ala Asn Ala Leu Leu Glu Arg Asn Gln
  50                      55                      60
Leu Leu Ala Gln Lys Val Met Tyr Leu Leu Val Pro Leu Leu Asn Arg
  65                      70                      75                      80
Gly Asn Asp Lys His Lys Leu Thr Ser Ala Gly Phe Phe Val Glu Leu
                      85                      90                      95
Leu Arg Ser Pro Val Ala Lys Arg Leu Pro Ser Ile Tyr Ser Val Ala
                      100                      105                      110
Arg Phe Lys Asp Trp Leu Gln Asp
      115                      120

```

```

<210> 864
<211> 124
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(124)
<223> X = any amino acid or stop code

```

```

<400> 864
Arg Pro Ala Pro Ala Pro Ser Ala Ala Pro Glu Glu Ala Pro Ser Pro
  1                      5                      10                      15
Gly Val Lys Gly Arg Gly Met Ala Lys Arg Arg Val Pro Ala Pro Val
                      20                      25                      30
Trp Gly Gly Ala Gly Gly Gly Thr Lys Ser Ala Arg Arg Ala Ala Ala
      35                      40                      45
Ala Pro Asp Thr Glu Arg Ser Glu Glu Gly Gly Arg Ala Val Lys Glu
      50                      55                      60
Ala Tyr Pro Ser Ser Arg Gln Pro Pro Pro Pro Ser Pro Xaa Pro Leu
      65                      70                      75                      80
Arg Cys Ala Arg Arg Cys His Pro Asn Leu Ala Pro Ser Met Pro Ile
                      85                      90                      95
Ser Asn Arg Glu Gly Lys Gly Lys Arg Arg Glu Glu Lys Ile Arg Pro
                      100                      105                      110
Leu Ser Pro Ala Ser Thr His Thr Ser Ala Arg Ala
      115                      120                      124

```

```

<210> 865
<211> 120
<212>Amino acid
<213> Homo sapiens

```

```

<400> 865
Leu Gln Gly Val His Gly Ser Ser Ser Thr Phe Cys Ser Ser Leu Ser
  1                      5                      10                      15
Ser Asp Phe Asp Pro Leu Glu Tyr Cys Ser Pro Lys Gly Asp Pro Gln
                      20                      25                      30
Arg Val Asp Met Gln Pro Ser Val Thr Ser Arg Pro Arg Ser Leu Asp
      35                      40                      45
Ser Glu Val Pro Thr Gly Glu Thr Gln Val Ser Ser His Val His Tyr
      50                      55                      60
His Arg His Arg His His His Tyr Lys Lys Arg Phe Gln Arg His Gly

```

```

65          70          75          80
Arg Lys Pro Gly Pro Glu Thr Gly Val Pro Gln Ser Arg Pro Pro Ile
          85          90          95
Pro Arg Thr Gln Pro Gln Pro Glu Pro Pro Ser Pro Asp Gln Gln Val
          100          105          110
Thr Arg Ser Asn Ser Ala Ala Pro
          115          120

```

<210> 866
 <211> 82
 <212>Amino acid
 <213> Homo sapiens

```

<400> 866
Met Ala Asp Pro Asp Pro Arg Tyr Pro Arg Ser Ser Ile Glu Asp Asp
 1          5          10          15
Phe Asn Tyr Gly Ser Ser Glu Ala Ser Asp Thr Val His Ile Arg Met
          20          25          30
Ala Phe Leu Arg Arg Val Tyr Ser Ile Leu Ser Leu Gln Asp Leu Leu
          35          40          45
Ala Thr Val Thr Ser Thr Asp Asn Leu Ala Phe Glu Asp Gly Arg Thr
          50          55          60
Asp Trp Leu Gln Arg Pro Asp Cys Val Ser Phe Lys Ile His Val Leu
65          70          75          80
Pro Met
82

```

<210> 867
 <211> 60
 <212>Amino acid
 <213> Homo sapiens

```

<400> 867
Ala Gly Met Ser Val Val Val Val Pro Pro Ile Gly Ser Ser Tyr Leu
 1          5          10          15
Gly Leu Ile Ser Gln Glu His Phe Pro Asn Glu Phe Thr Ser Gly Asp
          20          25          30
Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe Tyr Gly Ser Ser Tyr
          35          40          45
Val Ala Ala Ser Asp Ser Ser Arg Thr Pro Gly Leu
50          55          60

```

<210> 868
 <211> 78
 <212>Amino acid
 <213> Homo sapiens

```

<400> 868
Val Ala Ala Ala Leu Thr Leu Phe Pro Gln Gln Leu Ser Pro Pro Gly

```

```

      1           5           10           15
Ala Trp Gly Leu Gly Leu Ser Ala Cys Phe Cys Cys Ala Glu Gly Phe
      20           25           30
Ser Arg Leu Asn Gln Gln Val Leu Ser Ser Ser Leu Leu Leu Ser
      35           40           45
Arg Thr Asn Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn Leu Lys Lys
      50           55           60
Leu Thr Pro Arg Arg Asp Val Pro Thr Tyr Pro Lys Val Arg
      65           70           75           78

```

<210> 869
 <211> 119
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 869
Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile
      1           5           10           15
Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr
      20           25           30
Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu
      35           40           45
Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln
      50           55           60
Ser Gly Thr Ser Gln Ala Ala His Val Ala Gly Ile Ala Ala Met
      65           70           75           80
Met Leu Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg
      85           90           95
Leu Ile His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro
      100          105          110
Glu Asp Gln Arg Val Leu Thr
      115          119

```

<210> 870
 <211> 34
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 870
Leu Glu Ile Lys Phe Leu Glu Gln Val Asp Gln Phe Tyr Asp Asp Asn
      1           5           10           15
Phe Pro Met Glu Ile Arg His Leu Leu Ala Gln Trp Ile Glu Asn Gln
      20           25           30
Asp Trp
      34

```

<210> 871
 <211> 154
 <212>Amino acid
 <213> Homo sapiens

<400> 871
 Glu Ala Gly Asp Ala Asp Glu Asp Glu Ala Asp Ala Asn Ser Ser Asp
 1 5 10 15
 Cys Glu Pro Glu Gly Pro Val Glu Ala Glu Glu Pro Pro Gln Glu Asp
 20 25 30
 Ser Ser Ser Gln Ser Asp Ser Val Glu Asp Arg Ser Glu Asp Glu Glu
 35 40 45
 Asp Glu His Ser Glu Glu Glu Glu Thr Ser Gly Ser Ser Ala Ser Glu
 50 55 60
 Glu Ser Glu Ser Glu Glu Ser Glu Asp Ala Gln Ser Gln Ser Gln Ala
 65 70 75 80
 Asp Glu Glu Glu Glu Asp Asp Asp Phe Gly Val Glu Tyr Leu Leu Ala
 85 90 95
 Arg Asp Glu Glu Gln Ser Glu Ala Asp Ala Gly Ser Gly Pro Pro Thr
 100 105 110
 Pro Gly Pro Thr Thr Leu Gly Pro Lys Lys Glu Ile Thr Asp Ile Ala
 115 120 125
 Ala Ala Ala Glu Ser Leu Gln Pro Lys Gly Tyr Thr Leu Ala Thr Thr
 130 135 140
 Gln Val Lys Thr Pro Ile Pro Leu Leu Leu
 145 150 154

<210> 872
 <211> 118
 <212> Amino acid
 <213> Homo sapiens

<400> 872
 Leu Lys Asn Leu Arg Glu Leu Leu Leu Glu Asp Asn Gln Leu Pro Gln
 1 5 10 15
 Ile Pro Ser Gly Leu Pro Glu Ser Leu Thr Glu Leu Ser Leu Ile Gln
 20 25 30
 Thr Asn Ile Tyr Asn Ile Thr Lys Glu Gly Ile Ser Arg Leu Ile Asn
 35 40 45
 Leu Lys Asn Leu Tyr Leu Ala Trp Asn Cys Tyr Phe Asn Lys Val Cys
 50 55 60
 Glu Lys Thr Asn Ile Glu Asp Gly Val Phe Glu Thr Leu Thr Asn Leu
 65 70 75 80
 Glu Leu Leu Ser Leu Ser Phe Asn Ser Leu Ser His Val Pro Pro Lys
 85 90 95
 Leu Pro Ser Ser Leu Arg Lys Leu Phe Leu Ser Asn Thr Gln Ile Lys
 100 105 110
 Tyr Ile Ser Glu Glu Asp
 115 118

<210> 873
 <211> 42
 <212> Amino acid
 <213> Homo sapiens

<400> 873
 Met Arg Ser Gln Ala Leu Gly Gln Ser Ala Pro Ser Leu Thr Ala Ser

```

      1           5           10           15
Leu Lys Glu Leu Ser Leu Pro Arg Arg Gly Ser Phe Pro Val Cys Pro
      20           25           30
Asn Ala Gly Arg Thr Ser Pro Leu Gly *
      35           40  41

```

<210> 874
 <211> 70
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 874
Leu Leu Cys Val Cys Leu Pro Val Gly Ala Cys Pro Ser Leu Ser Leu
      1           5           10           15
Leu Thr Ala Pro Leu Asn Gln Leu Met Arg Cys Leu Arg Lys Tyr Gln
      20           25           30
Ser Arg Thr Pro Ser Pro Leu Leu His Ser Val Pro Ser Glu Ile Val
      35           40           45
Phe Asp Phe Glu Pro Gly Pro Val Phe Arg Gly Ser Trp Ala Leu Leu
      50           55           60
Ser Trp Ser Thr Arg Pro
      65           70

```

<210> 875
 <211> 41
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 875
Gln Thr Pro Asp Lys Lys Gln Asn Asp Gln Arg Asn Arg Lys Arg Lys
      1           5           10           15
Ala Glu Pro Tyr Glu Thr Ser Gln Gly Ser Asn Asn Phe Val Ser Thr
      20           25           30
Lys Val Leu Asn Ser Asn Val Leu Arg
      35           40  41

```

<210> 876
 <211> 139
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 876
Tyr Phe Ile Ile Lys Gly Met Val Glu Leu Val Pro Ala Ser Asp Thr
      1           5           10           15
Leu Arg Lys Ile Gln Val Glu Tyr Gly Val Thr Gly Ser Phe Lys Asp
      20           25           30
Lys Pro Leu Ala Glu Trp Leu Arg Lys Tyr Asn Pro Ser Glu Glu Glu
      35           40           45
Tyr Glu Lys Ala Ser Glu Asn Phe Ile Tyr Ser Cys Ala Gly Cys Cys

```

```

      50              55              60
Val Ala Thr Tyr Val Leu Gly Ile Cys Asp Arg His Asn Asp Asn Ile
 65              70              75              80
Met Leu Arg Ser Thr Gly His Met Phe His Ile Asp Phe Gly Lys Phe
      85              90              95
Leu Gly His Ala Gln Met Phe Gly Ser Phe Lys Arg Asp Arg Ala Pro
      100              105              110
Phe Val Leu Thr Ser Asp Met Ala Tyr Val Ile Asn Gly Gly Glu Lys
      115              120              125
Pro Thr Ile Arg Phe Gln Leu Phe Val Asp Leu
      130              135              139

```

```

<210> 877
<211> 350
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(350)
<223> X = any amino acid or stop code

```

```

<400> 877
Pro Ser Pro Leu Pro Ser Leu Ser Leu Pro Pro Pro Val Ala Pro Gly
 1              5              10              15
Gly Gln Glu Ser Pro Ser Pro His Thr Ala Glu Val Glu Ser Glu Ala
      20              25              30
Ser Pro Pro Ala Arg Pro Leu Pro Gly Glu Ala Arg Leu Ala Pro
      35              40              45
Ile Ser Glu Glu Gly Lys Pro Gln Leu Val Gly Arg Phe Gln Val Thr
      50              55              60
Ser Ser Lys Asn Arg Leu Ser Leu Phe Pro Cys Ser Gln His Pro Pro
      65              70              75              80
Leu Ser Leu Val Leu Gln Asn Leu Gln Pro Leu Ser Ser Leu Gln Arg
      85              90              95
Ala Gln Ile Gln Arg Thr Val Pro Gly Gly Gly Pro Glu Thr Arg Glu
      100              105              110
Ala Leu Ala Glu Ser Asp Arg Ala Ala Glu Gly Leu Gly Ala Gly Val
      115              120              125
Glu Glu Glu Gly Asp Asp Gly Lys Glu Pro Gln Val Gly Gly Ser Pro
      130              135              140
Gln Pro Leu Ser His Pro Ser Pro Val Trp Met Asn Tyr Ser Tyr Ser
      145              150              155              160
Ser Leu Cys Leu Ser Ser Glu Glu Ser Glu Ser Ser Gly Glu Asp Glu
      165              170              175
Glu Phe Trp Ala Glu Leu Gln Ser Leu Arg Gln Lys His Leu Ser Glu
      180              185              190
Val Glu Thr Leu Gln Thr Leu Gln Lys Lys Glu Ile Glu Asp Leu Tyr
      195              200              205
Ser Arg Leu Gly Lys Gln Pro Pro Gly Ile Val Ala Pro Ala Ala
      210              215              220
Met Leu Ser Ser Arg Gln Arg Arg Leu Ser Lys Gly Ser Phe Pro Thr
      225              230              235              240
Ser Arg Arg Asn Ser Leu Gln Arg Ser Glu Pro Pro Gly Pro Gly Glu
      245              250              255
Thr Ala Gly His Pro Ala Ser Ile Phe Ser Leu Arg Pro Leu Ser Val
      260              265              270
Asp Cys Phe Ser Pro Gly Pro Gly Leu Pro Arg Gly Asn Arg Pro
      275              280              285

```

Pro Leu Pro Thr Ser Pro Phe Leu Thr Xaa Cys Ser Pro Ser Pro His
 290 295 300
 Thr Ala Glu Val Glu Ser Glu Ala Ser Pro Pro Pro Ala Arg Pro Leu
 305 310 315 320
 Pro Gly Glu Ala Arg Leu Ala Pro Ile Ser Glu Glu Gly Lys Pro Gln
 325 330 335
 Leu Val Gly Arg Phe Pro Ser Asp Phe Ile Gln Gly Thr Gly
 340 345 350

<210> 878
 <211> 112
 <212>Amino acid
 <213> Homo sapiens

<400> 878
 Arg Arg Phe Val Ser Gln Glu Thr Gly Asn Leu Tyr Ile Ala Lys Val
 1 5 10 15
 Glu Lys Ser Asp Val Gly Asn Tyr Thr Cys Val Val Thr Asn Thr Val
 20 25 30
 Thr Asn His Lys Val Leu Gly Pro Pro Thr Pro Leu Ile Leu Arg Asn
 35 40 45
 Asp Gly Val Met Gly Glu Tyr Glu Pro Lys Ile Glu Val Gln Phe Pro
 50 55 60
 Glu Thr Val Pro Thr Ala Lys Gly Ala Thr Val Lys Leu Glu Cys Phe
 65 70 75 80
 Ala Leu Gly Asn Pro Val Pro Thr Ile Ile Trp Arg Arg Ala Asp Gly
 85 90 95
 Lys Pro Ile Ala Arg Lys Ala Arg Arg His Lys Ser Arg Val Gly Lys
 100 105 110 112

<210> 879
 <211> 282
 <212>Amino acid
 <213> Homo sapiens

<400> 879
 Met Leu Arg Thr Cys Tyr Val Leu Cys Ser Gln Ala Gly Pro Arg Ser
 1 5 10 15
 Arg Gly Trp Gln Ser Leu Ser Phe Asp Gly Gly Ala Phe His Leu Lys
 20 25 30
 Gly Thr Gly Glu Leu Thr Arg Ala Leu Leu Val Leu Arg Leu Cys Ala
 35 40 45
 Trp Pro Pro Leu Val Thr His Gly Leu Leu Leu Gln Ala Trp Ser Arg
 50 55 60
 Arg Leu Leu Gly Ser Arg Leu Ser Gly Ala Phe Leu Arg Ala Ser Val
 65 70 75 80
 Tyr Gly Gln Phe Val Ala Gly Glu Thr Ala Glu Glu Val Lys Gly Cys
 85 90 95
 Val Gln Gln Leu Arg Thr Leu Ser Leu Arg Pro Leu Leu Ala Val Pro
 100 105 110
 Thr Glu Glu Glu Pro Asp Ser Ala Ala Lys Ser Gly Glu Ala Trp Tyr
 115 120 125

Glu Gly Asn Leu Gly Ala Met Leu Arg Cys Val Asp Leu Ser Arg Gly
 130 135 140
 Leu Leu Glu Pro Pro Ser Leu Ala Glu Ala Ser Leu Met Gln Leu Lys
 145 150 155 160
 Val Thr Ala Leu Thr Ser Thr Arg Leu Cys Lys Glu Leu Ala Ser Trp
 165 170 175
 Val Arg Arg Pro Gly Ala Ser Leu Glu Leu Ser Pro Glu Arg Leu Ala
 180 185 190
 Glu Ala Met Asp Ser Gly Gln Asn Leu Gln Val Ser Cys Leu Asn Ala
 195 200 205
 Glu Gln Asn Gln His Leu Arg Ala Ser Leu Ser Arg Leu His Arg Val
 210 215 220
 Ala Gln Tyr Ala Arg Ala Gln His Val Arg Leu Leu Val Asp Ala Glu
 225 230 235 240
 Tyr Thr Ser Leu Asn Pro Ala Leu Ser Leu Leu Val Ala Ala Leu Ala
 245 250 255
 Val Arg Trp Asn Ser Pro Gly Glu Gly Gly Pro Trp Val Trp Asn Thr
 260 265 270
 Tyr Gln Ala Cys Leu Lys Asp Thr Phe *
 275 280 281

<210> 880
 <211> 29
 <212>Amino acid
 <213> Homo sapiens

<400> 880
 Pro His His Arg Ile Ala Gly Asp Thr Ala Ile Asp Lys Asn Ile His
 1 5 10 15
 Gln Ser Val Ser Glu Gln Ile Lys Lys Asn Phe Ala Lys
 20 25 29

<210> 881
 <211> 45
 <212>Amino acid
 <213> Homo sapiens

<400> 881
 Gln Met Thr Asn Pro Phe Phe Leu Cys Phe Thr Thr Met Ile Ser Asn
 1 5 10 15
 Cys Asn Phe Phe Lys Gly Pro Pro Gly Pro Pro Gly Glu Lys Gly Asp
 20 25 30
 Arg Gly Pro Thr Gly Glu Ser Gly Pro Arg Gly Phe Pro
 35 40 45

<210> 882
 <211> 54
 <212>Amino acid
 <213> Homo sapiens

<400> 882

```

Asn Gly Ile Ile Ala Ser Phe Phe Leu Arg Thr Phe Ile Phe Cys Phe
 1           5           10           15
Ile His Ile Gln Gly Cys Gln Ala Gly Gln Thr Ile Lys Val Gln Val
           20           25           30
Ser Phe Asp Leu Leu Ser Leu Met Phe Thr Phe Val Ser Pro Cys Thr
       35           40           45
Asn Asp Leu Ile Ile His
 50           54

```

<210> 883

<211> 479

<212>Amino acid

<213> Homo sapiens

<400> 883

```

Lys Leu Ser Val Asn His Arg Arg Thr His Leu Thr Lys Leu Met His
 1           5           10           15
Thr Val Glu Gln Ala Thr Leu Arg Ile Ser Gln Ser Phe Gln Lys Thr
           20           25           30
Thr Glu Phe Asp Thr Asn Ser Thr Asp Ile Ala Leu Lys Val Phe Phe
           35           40           45
Phe Asp Ser Tyr Asn Met Lys His Ile His Pro His Met Asn Met Asp
 50           55           60
Gly Asp Tyr Ile Asn Ile Phe Pro Lys Arg Lys Ala Ala Tyr Asp Ser
 65           70           75           80
Asn Gly Asn Val Ala Val Ala Phe Leu Tyr Tyr Lys Ser Ile Gly Pro
           85           90           95
Leu Leu Ser Ser Ser Asp Asn Phe Leu Leu Lys Pro Gln Asn Tyr Asp
           100           105           110
Asn Ser Glu Glu Glu Arg Val Ile Ser Ser Val Ile Ser Val Ser
 115           120           125
Met Ser Ser Asn Pro Pro Thr Leu Tyr Glu Leu Glu Lys Ile Thr Phe
 130           135           140
Thr Leu Ser His Arg Lys Val Thr Asp Arg Tyr Arg Ser Leu Cys Ala
 145           150           155           160
Phe Trp Asn Tyr Ser Pro Asp Thr Met Asn Gly Ser Trp Ser Ser Glu
           165           170           175
Gly Cys Glu Leu Thr Tyr Ser Asn Glu Thr His Thr Ser Cys Arg Cys
           180           185           190
Asn His Leu Thr His Phe Ala Ile Leu Met Ser Ser Gly Pro Ser Ile
 195           200           205
Gly Ile Lys Asp Tyr Asn Ile Leu Thr Arg Ile Thr Gln Leu Gly Ile
 210           215           220
Ile Ile Ser Leu Ile Cys Leu Ala Ile Cys Ile Phe Thr Phe Trp Phe
 225           230           235           240
Phe Ser Glu Ile Gln Ser Thr Arg Thr Thr Ile His Lys Asn Leu Cys
           245           250           255
Cys Ser Leu Phe Leu Ala Glu Leu Val Phe Leu Val Gly Ile Asn Thr
 260           265           270
Asn Thr Asn Lys Leu Phe Cys Ser Ile Ile Ala Gly Leu Leu His Tyr
 275           280           285
Phe Phe Leu Ala Ala Phe Ala Trp Met Cys Ile Glu Gly Ile His Leu
 290           295           300
Tyr Leu Ile Val Val Gly Val Ile Tyr Asn Lys Gly Phe Leu His Lys
 305           310           315           320
Asn Phe Tyr Ile Phe Gly Tyr Leu Ser Pro Ala Val Val Val Gly Phe
           325           330           335

```

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Ser Ala Ala Leu Gly Tyr Arg Tyr Tyr Gly Thr Thr Lys Val Cys Trp
      340      345      350
Leu Ser Thr Glu Asn Asn Phe Ile Trp Ser Phe Ile Gly Pro Ala Cys
      355      360      365
Leu Ile Ile Leu Val Asn Leu Leu Ala Phe Gly Val Ile Ile Tyr Lys
      370      375      380
Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser Cys Phe Glu
      385      390      395      400
Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu
      405      410      415
Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val
      420      425      430
Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe
      435      440      445
Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
      450      455      460
Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
      465      470      475      479

```

<210> 884
 <211> 143
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 884
Gly Thr Arg Glu Ala Ala Pro Ser Arg Phe Met Phe Leu Leu Phe Leu
  1      5      10      15
Leu Thr Cys Glu Leu Ala Ala Glu Val Ala Ala Glu Val Glu Lys Ser
      20      25      30
Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro Thr Trp Leu Thr Asp Val
      35      40      45
Pro Ala Ala Met Glu Phe Ile Ala Ala Thr Glu Val Ala Val Ile Gly
      50      55      60
Phe Phe Gln Asp Leu Glu Ile Pro Ala Val Pro Ile Leu His Ser Met
      65      70      75      80
Val Gln Lys Phe Pro Gly Val Ser Phe Gly Ile Ser Thr Asp Ser Glu
      85      90      95
Val Leu Thr His Tyr Asn Ile Thr Gly Asn Thr Ile Cys Leu Phe Arg
      100      105      110
Leu Val Asp Asn Glu Gln Leu Asn Leu Glu Asp Glu Asp Ile Glu Ser
      115      120      125
Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile Glu Ile Asn Ser Leu
      130      135      140      143

```

<210> 885
 <211> 52
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 885
Asp Glu Thr Ser Gly Leu Ile Val Arg Glu Val Ser Ile Glu Ile Ser
  1      5      10      15
Arg Gln Gln Val Glu Glu Leu Phe Gly Pro Glu Asp Tyr Trp Cys Gln
      20      25      30

```

Cys Val Ala Trp Ser Ser Ala Gly Thr Thr Lys Ser Arg Lys Ala Tyr
 35 40 45
 Val Arg Ile Ala
 50 52

<210> 886
 <211> 40
 <212> Amino acid
 <213> Homo sapiens

<400> 886
 Gly Thr Arg Ser Ile His Val Lys Leu Asp Val Gly Lys Leu His Thr
 1 5 10 15
 Gln Pro Lys Leu Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly
 20 25 30
 Lys Val Glu Gly Leu Pro Gly Ile
 35 40

<210> 887
 <211> 177
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(177)
 <223> X = any amino acid or stop code

<400> 887
 Xaa Cys Gly Glu Asp Gly Ser Phe Thr Gln Val Gln Cys His Thr Tyr
 1 5 10 15
 Thr Gly Tyr Cys Trp Cys Val Thr Pro Asp Gly Lys Pro Ile Ser Gly
 20 25 30
 Ser Ser Val Gln Asn Lys Thr Pro Val Cys Ser Gly Ser Val Thr Asp
 35 40 45
 Lys Pro Leu Ser Gln Gly Asn Ser Gly Arg Lys Asp Asp Gly Ser Lys
 50 55 60
 Pro Thr Pro Thr Met Glu Thr Gln Pro Val Phe Asp Gly Asp Glu Ile
 65 70 75 80
 Thr Ala Pro Thr Leu Trp Ile Lys His Leu Val Ile Lys Asp Ser Lys
 85 90 95
 Leu Asn Asn Thr Asn Ile Arg Asn Ser Glu Lys Val Tyr Ser Cys Asp
 100 105 110
 Gln Glu Arg Gln Ser Ala Leu Glu Glu Ala Gln Gln Asn Pro Arg Glu
 115 120 125
 Gly Ile Val Ile Pro Glu Cys Ala Pro Gly Gly Leu Tyr Lys Pro Val
 130 135 140
 Gln Cys His Gln Ser Thr Gly Tyr Cys Trp Cys Val Leu Val Asp Thr
 145 150 155 160
 Gly Arg Pro Leu Pro Gly Thr Ser Thr Arg Tyr Val Met Pro Ser Xaa
 165 170 175 176

*

<210> 888
 <211> 48
 <212>Amino acid
 <213> Homo sapiens

<400> 888
 Val Leu Gln Leu Ile Lys Ser Gln Lys Phe Leu Asn Lys Leu Val Ile
 1 5 10 15
 Leu Val Glu Thr Glu Lys Glu Lys Ile Leu Arg Lys Glu Tyr Val Phe
 20 25 30
 Ala Asp Ser Lys Val Ser Asp Ser Lys Leu Leu Lys Trp Ala Val Arg
 35 40 45 48

<210> 889
 <211> 316
 <212>Amino acid
 <213> Homo sapiens

<400> 889
 Arg Arg Leu Ser Leu Leu Asp Leu Gln Leu Gly Pro Leu Gly Arg Asp
 1 5 10 15
 Pro Pro Gln Glu Cys Ser Thr Phe Ser Pro Thr Asp Ser Gly Glu Glu
 20 25 30
 Pro Gly Gln Leu Ser Pro Gly Val Gln Phe Gln Arg Arg Gln Asn Gln
 35 40 45
 Arg Arg Phe Ser Met Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met
 50 55 60
 Asp Ile Arg Leu Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser
 65 70 75 80
 Pro Asp Leu Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu
 85 90 95
 Ser Asp Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys
 100 105 110
 Leu Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
 115 120 125
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu Glu
 130 135 140
 Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys Asn Leu
 145 150 155 160
 Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His Thr Asp Arg
 165 170 175
 Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp Leu Lys Gln Tyr
 180 185 190
 Leu Asp His Cys Gly Asn Leu Met Ser Met His Asn Val Lys Val Arg
 195 200 205
 Pro Arg Gly Gln Gly Pro Pro Ile Leu Ala Ala Thr Cys Pro Glu Ala
 210 215 220
 Gln Cys Gly Asp Pro Leu Ser Pro Pro Gly Ile Arg Leu Leu Arg Trp
 225 230 235 240
 Leu Lys Pro Ser His Val Gly Lys Arg Glu Arg Ala Met Pro Ser Thr
 245 250 255
 Ser Pro Gly Thr Gly Leu Ser Ala Leu Pro Gln Glu Gln Thr His Thr

```

      260      265      270
Val Cys His Cys Leu Ala Val Gly Ile Lys Pro Thr Leu Asn Ser Glu
      275      280      285
His Gln Phe Pro Ser Leu Ser Asn Gly Ser Val Ser Tyr Leu Pro Lys
      290      295      300
Cys Arg Glu Ala Ser Gly Glu Ala Arg Gly Tyr Glu
305      310      315 316

```

<210> 890
 <211> 34
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 890
His Glu Arg His Glu Pro Ser Pro Thr Ala Leu Ala Phe Gly Asp His
  1      5      10      15
Pro Ile Val Gln Pro Lys Gln Leu Ser Phe Lys Ile Ile Gln Val Asn
      20      25      30
Asp Asn
  34

```

<210> 891
 <211> 68
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 891
Ala Arg Gly Pro Ser Leu Leu Ser Glu Phe His Pro Gly Ser Asp Arg
  1      5      10      15
Pro Gln Glu Arg Arg Thr Ser Tyr Glu Pro Ile His Pro Gly Pro Ser
      20      25      30
Pro Val Asp His Asp Ser Leu Glu Ser Lys Arg Pro Arg Leu Glu Gln
      35      40      45
Ala Ser Asp Ser His Tyr Gln Gly His Ile Thr Gly Glu Ser Leu Pro
  50      55      60
Gly Arg Val His
  65      68

```

<210> 892
 <211> 38
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 892
Gly Thr Arg Lys Glu Glu Phe Ser Ala Glu Glu Asn Phe Leu Ile Leu
  1      5      10      15
Thr Glu Met Ala Thr Asn His Val Gln Val Leu Val Glu Phe Thr Lys
      20      25      30
Lys Leu Pro Gly Ile Phe

```

35

38

<210> 893
 <211> 195
 <212>Amino acid
 <213> Homo sapiens

<400> 893
 His Thr His Lys Leu Val Ala Pro Arg Pro Gly Leu Pro Pro Thr Ser
 1 5 10 15
 Gln Trp Pro Arg Asp Ala Gly Arg Gln Ala Ser Gly Gly Leu Pro Ser
 20 25 30
 Leu Ser Thr Gly Pro Pro Lys Gly Pro Arg Asp Gly Leu Ala Arg Gly
 35 40 45
 His Pro Ala Glu Trp Leu Ala Gly Ser Pro Gly Asn Asn Ser Pro Thr
 50 55 60
 Gln Gly Ser Leu Pro Pro Gln Leu Asp Leu Tyr Ala Gly Ala Leu Phe
 65 70 75 80
 Val His Ile Cys Leu Gly Trp Asn Phe Tyr Leu Ser Thr Ile Leu Thr
 85 90 95
 Leu Gly Ile Thr Ala Leu Tyr Thr Ile Ala Gly Met Val Pro Ala Ala
 100 105 110
 Gly Arg Ser Thr Gln Gly Thr Cys Lys Gly Val Arg Arg Pro Pro Pro
 115 120 125
 Pro Thr Gly Pro Arg Glu Gln Pro Arg Lys Trp Pro Gln Gln Glu Pro
 130 135 140
 Gln Lys Phe Leu Pro Val Ser Leu Leu Pro Gly Ala Arg Ala Pro Ser
 145 150 155 160
 Ser Asn Leu Ala Ser Thr Gly Arg Gly Pro Gly Cys Cys Asn Leu His
 165 170 175
 Gly Arg Pro Ala Asp Ala His His Gly Gly Gly Gly Cys His Pro Asp
 180 185 190
 Asn Gln Arg
 195

<210> 894
 <211> 87
 <212>Amino acid
 <213> Homo sapiens

<400> 894
 Met Val Asn His Ser Leu Gln Glu Thr Ser Glu Gln Asn Val Ile Leu
 1 5 10 15
 Gln His Thr Leu Gln Gln Gln Gln Met Leu Gln Gln Glu Thr Ile
 20 25 30
 Arg Asn Gly Glu Leu Glu Asp Thr Gln Thr Lys Leu Glu Lys Gln Val
 35 40 45
 Ser Lys Leu Glu Gln Glu Leu Gln Lys Gln Arg Glu Ser Ser Ala Glu
 50 55 60
 Lys Leu Arg Lys Met Glu Lys Cys Glu Ser Ala Ala His Glu Ala
 65 70 75 80
 Asp Leu Lys Arg Gln Lys *
 85 86

<210> 895
 <211> 49
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(49)
 <223> X = any amino acid or stop code

<400> 895
 Val Cys Pro Lys Trp Cys Arg Phe Leu Thr Met Leu Gly His Cys Cys
 1 5 10 15
 Tyr Phe Trp His Val Trp Pro Ala Ser Xaa Ala Leu Ser Ala Gly Pro
 20 25 30
 Thr Pro Thr Ser Arg Ser Phe Ser Pro Ser Pro Leu Arg Ser Ile Ser
 35 40 45
 Thr
 49

<210> 896
 <211> 128
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(128)
 <223> X = any amino acid or stop code

<400> 896
 Met Arg Gly Pro Pro Val Leu Leu Leu Gln Ala Ala Pro Met Glu Cys
 1 5 10 15
 Pro Val Pro Gln Gly Ile Pro Ala Gly Ser Ser Pro Glu Pro Ala Pro
 20 25 30
 Asp Pro Pro Gly Pro His Phe Leu Arg Gln Glu Arg Ser Phe Glu Cys
 35 40 45
 Arg Met Cys Gly Lys Ala Phe Lys Arg Ser Ser Thr Leu Ser Thr His
 50 55 60
 Leu Leu Ile His Ser Asp Thr Arg Pro Tyr Pro Cys Gln Phe Cys Gly
 65 70 75 80
 Lys Arg Phe His Gln Lys Ser Asp Met Lys Lys His Thr Tyr Ile His
 85 90 95
 Thr Gly Glu Lys Pro His Lys Cys Gln Thr Gln Arg Glu Pro Thr Met
 100 105 110
 Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Xaa *
 115 120 125 127

<210> 897
 <211> 57
 <212>Amino acid
 <213> Homo sapiens

<400> 897

```

His Glu Gln Leu Thr Asn Asn Thr Ala Thr Ala Pro Ser Ala Thr Pro
 1          5          10          15
Val Phe Gly Gln Val Ala Ala Ser Thr Ala Pro Ser Leu Phe Gly Gln
          20          25          30
Gln Thr Gly Ile Thr Ala Ser Thr Ala Val Ala Thr Pro Gln Val Ile
          35          40          45
Ser Ser Arg Phe Ile Asn Leu Asp Phe
          50          55          57

```

<210> 898

<211> 163

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(163)

<223> X = any amino acid or stop code

<400> 898

```

Val Ser Val Phe Lys Asn Cys Pro Met Tyr Xaa Ile Cys Ile Phe Leu
 1          5          10          15
Thr Lys Met Phe Cys Val Leu Ile Ile Xaa Asn Lys Phe Xaa Val His
          20          25          30
Lys Lys Pro Leu Gln Glu Val Glu Ile Ala Ala Ile Thr His Gly Ala
          35          40          45
Leu Gln Gly Leu Ala Tyr Leu His Ser His Thr Met Ile His Arg Asp
          50          55          60
Ile Lys Ala Gly Asn Ile Leu Leu Thr Glu Pro Gly Gln Val Lys Leu
          65          70          75          80
Ala Asp Phe Gly Ser Ala Ser Met Ala Ser Pro Ala Asn Ser Phe Val
          85          90          95
Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu
          100          105          110
Gly Gln Tyr Asp Gly Lys Val Asp Val Trp Ser Leu Gly Ile Thr Cys
          115          120          125
Ile Glu Leu Ala Glu Arg Lys Pro Pro Leu Phe Asn Met Asn Ala Met
          130          135          140
Ser Ala Leu Tyr His Ile Ala Gln Asn Glu Ser Pro Thr Leu Gln Ser
          145          150          155          160
Asn Glu Trp
          163

```

<210> 899

<211> 352

<212>Amino acid

<213> Homo sapiens

<400> 899

Arg His Ala Arg Pro Gly Gly Gly Gly His Ser Asn Gln Arg Lys Met
 1 5 10 15
 Ser Leu Glu Gln Glu Glu Thr Gln Pro Gly Arg Leu Leu Gly Arg
 20 25 30
 Arg Asp Ala Val Pro Ala Phe Ile Glu Pro Asn Val Arg Phe Trp Ile
 35 40 45
 Thr Glu Arg Gln Ser Phe Ile Arg Arg Phe Leu Gln Trp Thr Glu Leu
 50 55 60
 Leu Asp Pro Thr Asn Val Phe Ile Ser Val Glu Ser Ile Glu Asn Ser
 65 70 75 80
 Arg Gln Leu Leu Cys Thr Asn Glu Asp Val Ser Ser Pro Ala Ser Ala
 85 90 95
 Asp Gln Arg Ile Gln Glu Ala Trp Lys Arg Ser Leu Ala Thr Val His
 100 105 110
 Pro Asp Ser Ser Asn Leu Ile Pro Lys Leu Phe Arg Pro Ala Ala Phe
 115 120 125
 Leu Pro Phe Met Ala Pro Thr Val Phe Leu Ser Met Thr Pro Leu Lys
 130 135 140
 Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met
 145 150 155 160
 Ala Ala Phe Asn Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro
 165 170 175
 Leu Glu Arg Ser Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe
 180 185 190
 Leu Gly Val Ile Pro Gln Phe Val Gln Met Lys Tyr Gly Leu Thr Gly
 195 200 205
 Pro Trp Ile Lys Arg Leu Leu Pro Val Ile Phe Leu Val Gln Ala Ser
 210 215 220
 Gly Met Asn Val Tyr Met Ser Arg Ser Leu Glu Ser Ile Lys Gly Ile
 225 230 235 240
 Ala Val Met Asp Lys Glu Gly Asn Val Leu Gly His Ser Arg Ile Ala
 245 250 255
 Gly Thr Lys Ala Val Arg Glu Thr Leu Ala Ser Arg Ile Val Leu Phe
 260 265 270
 Gly Thr Ser Ala Leu Ile Pro Glu Val Phe Thr Tyr Phe Phe Lys Arg
 275 280 285
 Thr Gln Tyr Phe Arg Lys Asn Pro Gly Ser Leu Trp Ile Leu Lys Leu
 290 295 300
 Ser Cys Thr Val Leu Ala Met Gly Leu Met Val Pro Phe Ser Phe Ser
 305 310 315 320
 Ile Phe Pro Gln Ile Gly Gln Ile Gln Tyr Cys Ser Leu Glu Glu Lys
 325 330 335
 Ile Gln Ser Pro Thr Glu Glu Thr Glu Ile Phe Tyr His Arg Gly Val
 340 345 350 352

<210> 900
 <211> 186
 <212> Amino acid
 <213> Homo sapiens

<400> 900
 His Ala Ser Gly Arg Leu Glu Val Phe Tyr Asn Gly Thr Trp Gly Ser
 1 5 10 15
 Val Gly Arg Arg Asn Ile Thr Thr Ala Ile Ala Gly Ile Val Cys Arg
 20 25 30
 Gln Leu Gly Cys Gly Glu Asn Gly Val Val Ser Leu Ala Pro Leu Ser
 35 40 45

```

Lys Thr Gly Ser Gly Phe Met Trp Val Asp Asp Ile Gln Cys Pro Lys
  50          55          60
Thr His Ile Ser Ile Trp Gln Cys Leu Ser Ala Pro Trp Glu Arg Arg
  65          70          75          80
Ile Ser Ser Pro Ala Glu Glu Thr Trp Ile Thr Cys Glu Asp Arg Ile
          85          90          95
Arg Val Arg Gly Gly Asp Thr Glu Cys Ser Gly Arg Val Glu Ile Trp
          100          105          110
His Ala Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Leu Ala
          115          120          125
Glu Ala Glu Val Val Cys Gln Gln Leu Gly Cys Gly Ser Ala Leu Ala
          130          135          140
Ala Leu Arg Asp Ala Ser Phe Gly Gln Gly Thr Gly Thr Ile Trp Leu
          145          150          155          160
Asp Asp Met Arg Cys Lys Gly Asn Glu Ser Phe Leu Trp Asp Cys His
          165          170          175
Ala Lys Pro Trp Gly Gln Ser Asp Cys Gly
          180          185 186

```

<210> 901
 <211> 365
 <212> Amino acid
 <213> Homo sapiens

```

<400> 901
Leu Gly Asp Phe Pro Gln Pro Gln Arg Gln Arg Arg Pro Gly Ala Ser
  1          5          10          15
Asp Leu Pro Pro His Leu Ala Gly Ala Arg Gln Trp Glu Val Arg Phe
          20          25          30
Phe Arg His Leu Pro Ala Arg Thr Leu Pro Pro Ser Leu Arg Met Pro
          35          40          45
Glu Gly Pro Glu Leu His Leu Ala Ser Gln Phe Val Asn Glu Ala Cys
          50          55          60
Arg Ala Leu Val Phe Gly Gly Cys Val Glu Lys Ser Ser Val Ser Arg
          65          70          75          80
Asn Pro Glu Val Pro Phe Glu Ser Ser Ala Tyr Arg Ile Ser Ala Ser
          85          90          95
Ala Arg Gly Lys Glu Leu Arg Leu Ile Leu Ser Pro Leu Pro Gly Ala
          100          105          110
Gln Pro Gln Gln Glu Pro Leu Ala Leu Val Phe Arg Phe Gly Met Ser
          115          120          125
Gly Ser Phe Gln Leu Val Pro Arg Glu Glu Leu Pro Arg His Ala His
          130          135          140
Leu Arg Phe Tyr Thr Ala Pro Pro Gly Pro Arg Leu Ala Leu Cys Phe
          145          150          155          160
Val Asp Ile Arg Arg Phe Gly Arg Trp Asp Leu Gly Gly Lys Trp Gln
          165          170          175
Pro Gly Arg Gly Pro Cys Val Leu Gln Glu Tyr Gln Gln Phe Arg Glu
          180          185          190
Asn Val Leu Arg Asn Leu Ala Asp Lys Ala Phe Asp Arg Pro Ile Cys
          195          200          205
Glu Ala Leu Leu Asp Gln Arg Phe Phe Asn Gly Ile Gly Asn Tyr Leu
          210          215          220
Arg Ala Glu Ile Leu Tyr Arg Leu Lys Ile Pro Pro Phe Glu Lys Ala
          225          230          235          240
Arg Ser Val Leu Glu Ala Leu Gln Gln His Arg Pro Ser Pro Glu Leu
          245          250          255
Thr Leu Ser Gln Lys Ile Arg Thr Lys Leu Gln Asn Pro Asp Leu Leu
          260          265          270

```

Glu Leu Cys His Ser Val Pro Lys Glu Val Val Gln Leu Gly Gly Arg
 275 280 285
 Gly Tyr Gly Ser Glu Ser Gly Glu Glu Asp Phe Ala Ala Phe Arg Ala
 290 295 300
 Trp Leu Arg Cys Tyr Gly Met Pro Gly Met Ser Ser Leu Gln Asp Arg
 305 310 315 320
 His Gly Arg Thr Ile Trp Phe Gln Gly Asp Pro Gly Pro Leu Ala Pro
 325 330 335
 Lys Gly Arg Lys Ser Arg Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser
 340 345 350
 Pro Glu Asp Arg Val Glu Asp Ala Leu Pro Pro Ser Lys
 355 360 365

<210> 902
 <211> 110
 <212> Amino acid
 <213> Homo sapiens

<400> 902
 Leu Thr Trp Ser Ala Cys Tyr Trp Arg Asp Ile Leu Arg Ile Gln Leu
 1 5 10 15
 Trp Ile Ala Ala Asp Ile Leu Leu Arg Met Leu Glu Lys Ala Leu Leu
 20 25 30
 Tyr Ser Glu His Gln Asn Ile Ser Asn Thr Gly Leu Ser Ser Gln Gly
 35 40 45
 Leu Leu Ile Phe Ala Glu Leu Ile Pro Ala Ile Lys Arg Thr Leu Ala
 50 55 60
 Arg Leu Leu Val Ile Ile Ala Ser Leu Asp Tyr Gly Ile Glu Lys Pro
 65 70 75 80
 His Leu Gly Thr Gly Met His Arg Val Ile Gly Leu Met Leu Leu Tyr
 85 90 95
 Leu Ile Phe Ala Asn Ala Glu Ser Val Ile Arg Val Ile Gly
 100 105 110

<210> 903
 <211> 44
 <212> Amino acid
 <213> Homo sapiens

<400> 903
 Phe Phe Phe Glu Met Glu Ser Arg Ser Ala Ala Gln Ala Gly Val Gln
 1 5 10 15
 Trp Cys Asn Leu Gly Ser Leu Gln Ala Leu Pro Pro Arg Phe Thr Pro
 20 25 30
 Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr
 35 40 44

<210> 904
 <211> 190
 <212> Amino acid
 <213> Homo sapiens

<400> 904

```

Tyr Glu Cys Glu Glu Leu Ala Lys Lys Leu Glu Asn Ser Gln Arg Asp
 1          5          10          15
Gly Ile Ser Arg Asn Lys Leu Ala Leu Ala Glu Leu Tyr Glu Asp Glu
          20          25          30
Val Lys Cys Lys Ser Ser Lys Ser Asn Arg Pro Lys Ala Thr Val Phe
          35          40          45
Lys Ser Pro Arg Thr Pro Pro Gln Arg Phe Tyr Ser Ser Glu His Glu
          50          55          60
Tyr Ser Gly Leu Asn Ile Val Arg Pro Ser Thr Gly Lys Ile Val Asn
          65          70          75          80
Glu Leu Phe Lys Glu Ala Arg Glu His Gly Ala Val Pro Leu Asn Glu
          85          90          95
Ala Thr Arg Ala Ser Gly Asp Asp Lys Ser Lys Ser Phe Thr Gly Gly
          100          105          110
Gly Tyr Arg Leu Gly Ser Ser Phe Cys Lys Arg Ser Glu Tyr Ile Tyr
          115          120          125
Gly Glu Asn Gln Leu Gln Asp Val Gln Ile Leu Leu Lys Leu Trp Ser
          130          135          140
Asn Gly Phe Ser Leu Asp Asp Gly Glu Leu Arg Pro Tyr Asn Glu Pro
          145          150          155          160
Thr Asn Ala Gln Phe Leu Glu Ser Val Lys Arg Gly Val Thr Leu Ile
          165          170          175
Ala Cys Met Pro Glu Ile Gln Gln Leu Met Leu Glu Ile Phe
          180          185          190

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<210> 905

<211> 414

<212>Amino acid

<213> Homo sapiens

<400> 905

```

Trp Pro Cys Gly Ala Ala Pro Gly Leu Thr His Ala Ser Glu Arg Met
 1          5          10          15
Phe Thr Leu Thr Thr Met Ile Gln Ala Leu Ala Pro Val Met Gly Trp
          20          25          30
Asp Arg Lys Pro Leu Lys Met Phe Ser Ser Glu Glu Met Arg Gly His
          35          40          45
Leu His His His His Lys Cys Leu Thr Lys Ile Leu Lys Val Glu Gly
          50          55          60
Gln Val Pro Asp Leu Pro Ser Cys Leu Pro Leu Thr Asp Asn Thr Arg
          65          70          75          80
Met Leu Ala Ser Ile Leu Ile Asn Met Leu Tyr Asp Asp Leu Arg Cys
          85          90          95
Asp Pro Glu Arg Asp His Phe Arg Lys Ile Cys Glu Glu Tyr Ile Thr
          100          105          110
Gly Lys Phe Asp Pro Gln Asp Met Asp Lys Asn Leu Asn Ala Ile Gln
          115          120          125
Thr Val Ser Gly Ile Leu Gln Gly Pro Phe Asp Leu Gly Asn Gln Leu
          130          135          140
Leu Gly Leu Lys Gly Val Met Glu Met Met Val Ala Leu Cys Gly Ser
          145          150          155          160
Glu Arg Glu Thr Asp Gln Leu Val Ala Val Glu Ala Leu Ile His Ala
          165          170          175
Ser Thr Lys Leu Ser Arg Ala Thr Phe Ile Ile Thr Asn Gly Val Ser
          180          185          190

```

```

Leu Leu Lys Gln Ile Tyr Lys Thr Thr Lys Asn Glu Lys Ile Lys Ile
   195                               200                205
Arg Thr Leu Val Gly Leu Cys Lys Leu Gly Ser Ala Gly Gly Thr Asp
   210                               215                220
Tyr Gly Leu Arg Gln Phe Ala Glu Gly Ser Thr Glu Lys Leu Ala Lys
  225                               230                235                240
Gln Cys Arg Lys Trp Leu Cys Asn Met Ser Ile Asp Thr Arg Thr Arg
   245                               250                255
Arg Trp Ala Val Glu Gly Leu Ala Tyr Leu Thr Leu Asp Ala Asp Val
   260                               265                270
Lys Asp Asp Phe Val Gln Asp Val Pro Ala Leu Gln Ala Met Phe Glu
   275                               280                285
Leu Ala Lys Thr Ser Asp Lys Thr Ile Leu Tyr Ser Val Ala Thr Thr
   290                               295                300
Leu Val Asn Cys Thr Asn Ser Tyr Asp Val Lys Glu Val Ile Pro Glu
  305                               310                315                320
Leu Val Gln Leu Ala Lys Phe Ser Lys Gln His Val Pro Glu Glu His
   325                               330                335
Pro Lys Asp Lys Lys Asp Phe Ile Asp Met Arg Val Lys Arg Leu Leu
   340                               345                350
Lys Ala Gly Val Ile Ser Ala Leu Ala Cys Met Val Lys Ala Asp Ser
   355                               360                365
Ala Ile Leu Thr Asp Gln Thr Lys Glu Leu Leu Ala Arg Val Phe Leu
   370                               375                380
Ala Leu Cys Asp Asn Pro Lys Asp Arg Gly Thr Ile Val Ala Gln Gly
  385                               390                395                400
Gly Gly Lys Ala Leu Ile Pro Leu Ala Leu Glu Gly Thr Asp
   405                               410                414

```

```

<210> 906
<211> 296
<212>Amino acid
<213> Homo sapiens

```

```

<400> 906
Val Asp Ser Val Gly Gly Gly Ser Glu Ser Arg Ser Leu Asp Ser Pro
   1                               5                10                15
Thr Ser Ser Pro Gly Ala Gly Thr Arg Gln Leu Val Lys Ala Ser Ser
   20                               25                30
Thr Gly Thr Glu Ser Ser Asp Asp Phe Glu Glu Arg Asp Pro Asp Leu
   35                               40                45
Gly Asp Gly Leu Glu Asn Gly Leu Gly Ser Pro Phe Gly Lys Trp Thr
   50                               55                60
Leu Ser Ser Ala Ala Gln Thr His Gln Leu Arg Arg Leu Arg Gly Pro
   65                               70                75                80
Ala Lys Cys Arg Glu Cys Glu Ala Phe Met Val Ser Gly Thr Glu Cys
   85                               90                95
Glu Glu Cys Phe Leu Thr Cys His Lys Arg Cys Leu Glu Thr Leu Leu
  100                               105                110
Ile Leu Cys Gly His Arg Arg Leu Pro Ala Arg Thr Pro Leu Phe Gly
  115                               120                125
Val Asp Phe Leu Gln Leu Pro Arg Asp Phe Pro Glu Glu Val Pro Phe
  130                               135                140
Val Val Thr Lys Cys Thr Ala Glu Ile Glu His Arg Ala Leu Asp Val
  145                               150                155                160
Gln Gly Ile Tyr Arg Val Ser Gly Ser Arg Val Arg Val Glu Arg Leu
  165                               170                175
Cys Gln Ala Phe Glu Asn Gly Arg Ala Leu Val Glu Leu Ser Gly Asn
  180                               185                190

```

```

Ser Pro His Asp Val Ser Ser Val Leu Lys Arg Phe Leu Gln Glu Leu
      195                200                205
Thr Glu Pro Val Ile Pro Phe His Leu Tyr Asp Ala Phe Ile Ser Leu
      210                215                220
Ala Lys Thr Leu His Ala Asp Pro Gly Asp Asp Pro Gly Thr Pro Ser
      225                230                235                240
Pro Ser Pro Glu Val Ile Arg Ser Leu Lys Thr Leu Leu Val Gln Leu
      245                250                255
Pro Asp Ser Asn Tyr Asn Thr Leu Arg His Leu Val Ala His Leu Phe
      260                265                270
Arg Val Ala Ala Arg Phe Met Glu Asn Lys Met Ser Ala Asn Asn Leu
      275                280                285
Gly Ile Val Phe Gly Pro Thr Leu
      290                295 296

```

```

<210> 907
<211> 131
<212>Amino acid
<213> Homo sapiens

```

```

<400> 907
Gly Leu His Val Ile Ser Leu His Ser Ala Asp Gly Arg His Trp Glu
  1                5                10                15
Asp Pro Leu Ser Glu Leu Asp Ser Glu Arg Val Ser Ala Phe Leu Val
      20                25                30
Thr Glu Thr Leu Val Phe Tyr Leu Phe Cys Leu Leu Ala Asp Glu Thr
      35                40                45
Val Val Pro Pro Asp Val Pro Ser Tyr Leu Ser Ser Gln Gly Thr Leu
      50                55                60
Ser Asp Arg Gln Glu Thr Val Val Arg Thr Glu Gly Gly Pro Gln Ala
      65                70                75                80
Asn Gly His Ile Glu Ser Asn Gly Lys Ala Ser Val Thr Val Lys Gln
      85                90                95
Ser Ser Ala Val Thr Val Ser Leu Gly Ala Gly Gly Gly Leu Gln Val
      100                105                110
Phe Thr Gly Gln Val Pro Gly Ile Arg Trp Gly Lys Leu Gly Glu Ala
      115                120                125
His Ala Ser
      130 131

```

```

<210> 908
<211> 124
<212>Amino acid
<213> Homo sapiens

```

```

<400> 908
Lys Ile Lys His Arg Pro Glu Glu Glu Pro Arg Trp Ala Ala Ala Gly
  1                5                10                15
Ala Gln Ser Ala Gly Pro Gly Ala Ala Glu Val Ala Pro Pro Arg Pro
      20                25                30
Gly Thr Val Ala Pro Gly Ala Asn Gly Met Thr Asp Ser Ala Thr Ala
      35                40                45
Asn Gly Asp Asp Arg Asp Pro Glu Ile Glu Leu Phe Val Lys Ala Gly
      50                55                60

```

```

Ile Asp Gly Glu Ser Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe
 65          70          75          80
Met Ile Leu Trp Leu Lys Gly Val Val Phe Asn Val Thr Thr Val Asp
          85          90          95
Leu Lys Arg Lys Pro Ala Asp Leu Arg Asn Leu Ala Pro Gly Thr His
          100          105          110
Pro Pro Phe Leu Ala Phe Asn Trp Tyr Val Lys Thr
          115          120          124

```

<210> 909
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

```

<400> 909
Leu Gly Phe Ser Asp Gly Gln Glu Ala Arg Pro Glu Glu Ile Gly Trp
 1          5          10          15
Leu Asn Gly Tyr Asn Glu Thr Thr Gly Glu Arg Gly Asp Phe Pro Gly
          20          25          30
Thr Tyr Val Glu Tyr Ile Gly Arg Lys Lys Ile Ser Pro Pro Thr Pro
          35          40          45
Lys Pro Arg Pro Pro Arg Pro Leu Pro Val Ala Pro Gly Ser Ser Lys
          50          55          60
Thr Glu Ala Asp Val Glu Gln Gln Val Leu Tyr Lys Tyr Arg Lys Lys
 65          70          75          80
Pro Ser Ser Ser His Arg Pro Gln Thr Pro His Asn Gly Lys Ser Lys
          85          90          95
Asn Phe Leu His Lys Gln Gly Leu Lys Lys Lys Lys Ala Ser Leu
          100          105          110 111

```

<210> 910
 <211> 298
 <212>Amino acid
 <213> Homo sapiens

```

<400> 910
Arg Thr Arg Gly Val Met Glu Leu Ala Leu Arg Arg Ser Pro Val Pro
 1          5          10          15
Arg Trp Leu Leu Leu Leu Pro Leu Leu Leu Gly Leu Asn Ala Gly Ala
          20          25          30
Val Ile Asp Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val
          35          40          45
Thr Val Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr
          50          55          60
Asn Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
 65          70          75          80
Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu Ile
          85          90          95
Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp Leu Gln
          100          105          110
Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr Gly Phe Ser
          115          120          125
Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu Ala Met Val Ala
          130          135          140

```

```

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Phe Ser Cys His Lys Glu
145          150          155          160
Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys
          165          170          175
Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly
          180          185          190
Thr Ile Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile
          195          200          205
Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met
          210          215          220
Ser Leu Leu Glu Asp Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu
225          230          235          240
Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu
          245          250          255
Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn
          260          265          270
Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His
          275          280          285
Gly Trp Cys Cys Gln Thr Trp Ser Leu His
          290          295          298

```

```

<210> 911
<211> 213
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(213)
<223> X = any amino acid or stop code

```

```

<400> 911
Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro
1          5          10          15
Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Phe Leu Arg
          20          25          30
Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu
          35          40          45
Arg Ser Leu Gln Ala Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
          50          55          60
Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Arg Pro Ala
          65          70          75          80
Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg
          85          90          95
Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln
          100          105          110
Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu
          115          120          125
Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser
          130          135          140
Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu
145          150          155          160
Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe
          165          170          175
Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp
          180          185          190
Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val
          195          200          205
Leu Gly Leu Gln Val

```


210

213

<210> 912
 <211> 583
 <212> Amino acid
 <213> Homo sapiens

<400> 912
 Pro Ser Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg
 1 5 10 15
 Lys Asp Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys
 20 25 30
 Ala Gln Ile Glu Glu Pro Asp Pro Pro Glu Met Glu Thr Ser Leu Asp
 35 40 45
 Ser Ser Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser
 50 55 60
 Thr Glu Ser Cys Thr Met Lys Gly Glu Glu Lys Ser Pro Lys Thr Lys
 65 70 75 80
 Lys Asp Lys Arg Pro Pro Ile Leu Glu Cys Leu Glu Lys Leu Glu Lys
 85 90 95
 Ser Lys Lys Thr Phe Leu Asp Lys Asp Ala Gln Arg Leu Ser Pro Ile
 100 105 110
 Pro Glu Glu Val Pro Lys Ser Thr Leu Glu Ser Glu Lys Pro Gly Ser
 115 120 125
 Pro Glu Ala Ala Glu Thr Ser Pro Pro Ser Asn Ile Ile Asp His Cys
 130 135 140
 Glu Lys Leu Ala Ser Glu Lys Glu Val Val Glu Cys Gln Ser Thr Ser
 145 150 155 160
 Thr Val Gly Gly Gln Ser Val Lys Lys Val Asp Leu Glu Thr Leu Lys
 165 170 175
 Glu Asp Ser Glu Phe Thr Lys Val Glu Met Asp Asn Leu Asp Asn Ala
 180 185 190
 Gln Thr Ser Gly Ile Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln
 195 200 205
 Lys Ser Lys Phe Lys Tyr Lys Leu Val Pro Glu Glu Glu Thr Thr Ala
 210 215 220
 Ser Glu Asn Thr Glu Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys
 225 230 235 240
 Leu Thr Ile Arg Ile Ser Ser Arg Lys Lys Pro Asp Ser Pro Pro
 245 250 255
 Lys Val Leu Glu Pro Glu Asn Lys Gln Glu Lys Thr Glu Lys Glu Glu
 260 265 270
 Glu Lys Thr Asn Val Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser
 275 280 285
 Arg Pro Thr Ala Lys Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys
 290 295 300
 Lys Arg Gly Glu Gly Glu Asp Glu Val Glu Glu Ser Thr Ala Leu
 305 310 315 320
 Gln Lys Thr Asp Lys Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr
 325 330 335
 Asn Ser Lys Val Ser Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr
 340 345 350
 Gly Ser Arg Thr Arg Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser
 355 360 365
 Glu Gly Ser Gly Ser Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu Glu
 370 375 380
 Glu Lys Glu Ser Glu Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys
 385 390 395 400
 Lys Lys Cys Gly Leu Pro Asn His Pro Glu Leu Ile Leu Leu Cys Asp

```

          405          410          415
Ser Cys Asp Ser Gly Tyr His Thr Ala Leu Pro Phe Ala Pro Pro Leu
          420          425          430
Met Ile His Pro Gln Met Gly Gly Trp Phe Cys Pro Thr Phe Cys Pro
          435          440          445
Thr Leu Asn Leu Leu Leu Leu Glu Lys Leu Glu Asp Gln Phe Gln Asp
          450          455          460
Leu Asp Val Ala Leu Lys Lys Glu Arg Ala Leu Pro Glu Arg Arg Lys
465          470          475          480
Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile Pro Pro
          485          490          495
Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys Asp Ser
          500          505          510
Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg Thr Arg
          515          520          525
Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile Asp Glu
          530          535          540
Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val Gly Arg
545          550          555          560
Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp Ile Ser
          565          570          575
Thr Ile Leu Asp Glu Glu Arg
          580          583

```

<210> 913
 <211> 178
 <212>Amino acid
 <213> Homo sapiens

```

          <400> 913
Lys Arg Arg Gly Ser Phe Lys Met Ala Glu Leu Asp Gln Leu Pro Asp
  1          5          10          15
Glu Ser Ser Ser Ala Lys Ala Leu Val Ser Leu Lys Glu Gly Ser Leu
          20          25          30
Ser Asn Thr Trp Asn Glu Lys Tyr Ser Ser Leu Gln Lys Thr Pro Val
          35          40          45
Trp Lys Gly Arg Asn Thr Ser Ser Ala Val Glu Met Pro Phe Arg Asn
          50          55          60
Ser Lys Arg Ser Arg Leu Phe Ser Asp Glu Asp Asp Arg Gln Ile Asn
          65          70          75          80
Thr Arg Ser Pro Lys Arg Asn Gln Arg Val Ala Met Val Pro Gln Lys
          85          90          95
Phe Thr Ala Thr Met Ser Thr Pro Asp Lys Lys Ala Ser Gln Lys Ile
          100          105          110
Gly Phe Arg Leu Arg Asn Leu Leu Lys Leu Pro Lys Ala His Lys Trp
          115          120          125
Cys Ile Tyr Glu Trp Phe Tyr Ser Asn Ile Asp Lys Pro Leu Phe Glu
          130          135          140
Gly Asp Asn Asp Phe Cys Val Cys Leu Lys Glu Ser Phe Pro Asn Leu
145          150          155          160
Lys Thr Arg Lys Leu Thr Arg Val Glu Trp Gly Lys Ile Arg Arg Leu
          165          170          175
Met Gly
178

```

<210> 914
 <211> 158
 <212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(158)

<223> X = any amino acid or stop code

<400> 914

```

Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile Pro Ile
 1           5           10           15
Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys Ile Ser
      20           25           30
Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu His Leu
      35           40           45
Asp Leu Tyr Leu Ala Ile Val Gly Leu Leu Ala Ile Thr Ala Val Tyr
      50           55           60
Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala Leu Gln
      65           70           75           80
Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr Ser Phe
      85           90           95
Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe Leu Ala
      100          105          110
Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro Arg Glu
      115          120          125
Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu Pro Trp
      130          135          140
Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Xaa *
145          150          155          157

```

<210> 915

<211> 108

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(108)

<223> X = any amino acid or stop code

<400> 915

```

Xaa Ser Ala Ser Ala Thr Ser Leu Thr Leu Ser His Cys Val Asp Val
 1           5           10           15
Val Lys Gly Leu Leu Asp Phe Lys Lys Arg Arg Gly His Ser Ile Gly
      20           25           30
Gly Ala Pro Glu Gln Arg Tyr Gln Ile Ile Pro Val Met Cys Cys Ser
      35           40           45
Leu Leu Ala Thr Gly Gly Ala Asp Arg Leu Ile His Leu Trp Asn Val
      50           55           60
Val Gly Ser Arg Leu Glu Ala Asn Gln Thr Leu Glu Gly Ala Gly Gly
      65           70           75           80
Ser Ile Thr Ser Val Asp Phe Asp Pro Ser Gly Tyr Gln Val Leu Ala
      85           90           95
Ala Thr Tyr Asn Gln Val Ala Gln Phe Trp Lys *
      100          105          107

```

<210> 916
 <211> 45
 <212>Amino acid
 <213> Homo sapiens

<400> 916
 Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu
 1 5 10 15
 Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg
 20 25 30
 Arg Leu Gly Met Val Phe Phe Ser Leu Leu Leu Ser Tyr
 35 40 45

<210> 917
 <211> 180
 <212>Amino acid
 <213> Homo sapiens

<400> 917
 Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu
 1 5 10 15
 Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser
 20 25 30
 Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr
 35 40 45
 Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg
 50 55 60
 Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr
 65 70 75 80
 Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr
 85 90 95
 Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe
 100 105 110
 Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro
 115 120 125
 Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser
 130 135 140
 Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu
 145 150 155 160
 Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro
 165 170 175
 Gln Leu His Asn
 180

<210> 918
 <211> 281
 <212>Amino acid
 <213> Homo sapiens

<400> 918

Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp
 1 5 10 15
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 20 25 30
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 35 40 45
 Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 50 55 60
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 65 70 75 80
 Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp
 85 90 95
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 100 105 110
 Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp
 115 120 125
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 130 135 140
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp
 145 150 155 160
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 165 170 175
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp
 180 185 190
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp
 195 200 205
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 210 215 220
 Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 225 230 235 240
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 245 250 255
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 260 265 270
 Glu Gly Lys Asp Glu Gly Lys Asp Lys
 275 280 281

<210> 919

<211> 147

<212> Amino acid

<213> Homo sapiens

<400> 919

Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly
 1 5 10 15
 Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile
 20 25 30
 Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala
 35 40 45
 Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala
 50 55 60
 Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser
 65 70 75 80
 Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln
 85 90 95
 Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro
 100 105 110
 Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

```

      115      120      125
Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu
      130      135      140
Tyr Val Pro
145      147

```

```

<210> 920
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 920
Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg
  1      5      10      15
Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser
      20      25      30
Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp
      35      40      45
Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn
      50      55      60
Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala
      65      70      75      80
Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu
      85      90      95
Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr
      100      105      110
Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe
      115      120      125
Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys
      130      135      140
Met Ala Ile Leu Ala Arg
145      150

```

```

<210> 921
<211> 125
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 921
Ile Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu
  1      5      10      15
Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu
      20      25      30
Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser
      35      40      45
Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser
      50      55      60
Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn
      65      70      75      80
Lys Leu Leu Gln Val Leu Arg Ala Leu Val Asp Ile His Val Leu Cys
      85      90      95
Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro
      100      105      110
Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys

```

115

120

125

<210> 922
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

<400> 922
 Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr
 1 5 10 15
 Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu
 20 25 30
 Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn
 35 40 45
 Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val
 50 55 60
 Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp
 65 70 75 80
 His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn
 85 90 95
 Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys
 100 105 110 111

<210> 923
 <211> 69
 <212>Amino acid
 <213> Homo sapiens

<400> 923
 Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp
 1 5 10 15
 Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile
 20 25 30
 Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr
 35 40 45
 Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu
 50 55 60
 Leu Leu Asp Ser Lys
 65 69

<210> 924
 <211> 120
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> X = any amino acid or stop code

```

<400> 924
Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly
 1          5          10          15
Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu
          20          25          30
Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met
          35          40          45
Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser
          50          55          60
Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys
          65          70          75          80
Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro
          85          90          95
Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser
          100          105          110
Asp Asn Gly Arg Ser Arg Tyr Arg
          115          120

```

```

<210> 925
<211> 108
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(108)
<223> X = any amino acid or stop code

```

```

<400> 925
Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro
 1          5          10          15
Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly
          20          25          30
Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser
          35          40          45
Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe
          50          55          60
Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser
          65          70          75          80
Leu Ile Gly Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly
          85          90          95
Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg
          100          105          108

```

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<210> 926
<211> 305
<212>Amino acid
<213> Homo sapiens

```

```

<400> 926
Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu
 1          5          10          15
Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

```



```

      20      25      30
Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile
      35      40      45
Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala
      50      55      60
Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu
      65      70      75      80
Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr
      85      90      95
Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile
      100      105      110
Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg
      115      120      125
Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile
      130      135      140
Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu
      145      150      155      160
Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu
      165      170      175
Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile
      180      185      190
Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly
      195      200      205
Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly
      210      215      220
Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg
      225      230      235      240
Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Pro Ser Ser Lys Val Ser
      245      250      255
Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr
      260      265      270
Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly
      275      280      285
Lys Glu Gly Ser Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser
      290      295      300
Pro
305

```

<210> 927
 <211> 303
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 927
Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro
1      5      10      15
Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser
      20      25      30
Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu
      35      40      45
Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln
      50      55      60
His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro
      65      70      75      80
Arg Gly Asn Thr Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys
      85      90      95
Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val
      100      105      110
Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser

```

115	120	125
Lys Thr Glu Thr Val Glu Glu Pro Met Glu Glu Glu Glu Ala Ala Lys		
130	135	140
Glu Glu Lys Glu Glu Ser Asp Asp Glu Ala Ala Val Glu Glu Glu Glu		
145	150	155
Glu Glu Lys Lys Pro Lys Thr Lys Lys Val Glu Lys Thr Val Trp Asp		160
165	170	175
Trp Glu Leu Met Asn Asp Ile Lys Pro Ile Trp Gln Arg Pro Ser Lys		
180	185	190
Glu Val Glu Glu Asp Glu Tyr Lys Ala Phe Tyr Lys Ser Phe Ser Lys		
195	200	205
Glu Ser Asp Asp Pro Met Ala Tyr Ile His Phe Thr Ala Glu Gly Glu		
210	215	220
Val Thr Phe Lys Ser Ile Leu Phe Val Pro Thr Ser Ala Pro Arg Gly		
225	230	235
Leu Phe Asp Glu Tyr Gly Ser Lys Lys Ser Asp Tyr Ile Lys Leu Tyr		
245	250	255
Val Arg Arg Val Phe Ile Thr Asp Asp Phe His Asp Met Met Pro Lys		
260	265	270
Tyr Leu Asn Phe Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu		
275	280	285
Asn Val Ser Arg Glu Thr Leu Gln Gln His Lys Leu Leu Lys Val		
290	295	300
		303

<210> 928
 <211> 147
 <212> Amino acid
 <213> Homo sapiens

<400> 928

Cys Gly Ser Trp Met Arg Arg Ala Leu Ile Pro Pro Cys Arg Gly Gly	
1 5 10 15	
Pro Ser Ala Ser Asp Arg Cys Cys Ser Cys Ser Pro Ser Gly Phe Ser	
20 25 30	
Ala Gly Arg Gly Arg Cys Pro Val Gln Gly Cys Leu Arg Pro His Arg	
35 40 45	
Val Gln Leu Leu Arg Arg Trp Gly Pro Gly Ser Pro Ala Gly Gln Arg	
50 55 60	
Leu Ser Lys Gly Phe Gln Leu Leu Arg Trp Trp Gly Pro Gly Ser Pro	
65 70 75 80	
Ala Pro Glu Pro Arg Lys Gly Pro Phe Pro Pro Pro Asp Pro Pro Trp	
85 90 95	
Pro Val Thr Ala Val Thr Val Met Ala Gly Ser Val Pro Ser Ala Gln	
100 105 110	
Ser Val Asp Ala Leu Glu Ser Pro Gly Pro Leu Ala Leu Glu Gly Pro	
115 120 125	
Ser Ser Pro Arg Asn Leu Leu Trp Arg Glu Met Ser Ile Phe Leu Pro	
130 135 140	
Gly Ile Phe	
145 147	

<210> 929
 <211> 183
 <212> Amino acid
 <213> Homo sapiens

<400> 929
 Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu
 1 5 10 15
 Ile Arg Val Glu Thr Pro Gly Pro Pro Ala Pro Pro Ala Asp Glu Arg
 20 25 30
 Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp
 35 40 45
 Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly
 50 55 60
 Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu
 65 70 75 80
 Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu
 85 90 95
 Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu
 100 105 110
 Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu
 115 120 125
 Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln
 130 135 140
 Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp
 145 150 155 160
 Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Val Gly Gln Leu
 165 170 175
 Asp Ser Ser Pro Ser Leu Pro
 180 183

<210> 930
 <211> 187
 <212> Amino acid
 <213> Homo sapiens

<400> 930
 Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln
 1 5 10 15
 His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn
 20 25 30
 Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met
 35 40 45
 Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr
 50 55 60
 Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp
 65 70 75 80
 Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp
 85 90 95
 Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr
 100 105 110
 Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Gln Ile Leu Ala Ser His
 115 120 125
 Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His
 130 135 140
 Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile
 145 150 155 160
 Ile Asn Ile Asn Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp
 165 170 175
 Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys
 180 185 187

<210> 931
 <211> 192
 <212>Amino acid
 <213> Homo sapiens

<400> 931
 Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg
 1 5 10 15
 Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe
 20 25 30
 Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val
 35 40 45
 Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Ile Arg Trp Phe
 50 55 60
 Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp
 65 70 75 80
 Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn
 85 90 95
 Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val
 100 105 110
 Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly
 115 120 125
 Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu
 130 135 140
 Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr
 145 150 155 160
 His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr
 165 170 175
 Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu
 180 185 190 192

<210> 932
 <211> 545
 <212>Amino acid
 <213> Homo sapiens

<400> 932
 Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln
 1 5 10 15
 Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser
 20 25 30
 Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp
 35 40 45
 Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly
 50 55 60
 Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys
 65 70 75 80
 Gln Ile Asp Ile Met Val Ala His Lys Lys Ser Glu Trp Glu Gly Arg
 85 90 95
 Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys
 100 105 110
 Ser Leu Arg Ser Gln Leu Asp Val Thr His Lys Glu Val Gly Met Leu

115	120	125
His Gln Val Glu Glu	His Glu Lys Ile Lys	Gln Glu Met Thr Met
130	135	140
Glu Tyr Lys Gln Glu Leu	Lys Lys Leu His Glu Glu	Leu Cys Ile Leu
145	150	155
Lys Arg Ser Tyr Glu Lys	Leu Gln Lys Lys Gln Met	Arg Glu Phe Arg
165	170	175
Gly Asn Thr Lys Asn His	Arg Glu Asp Arg Ser Glu	Ile Glu Arg Leu
180	185	190
Thr Ala Lys Ile Glu Glu	Phe Arg Gln Lys Ser Leu	Asp Trp Glu Lys
195	200	205
Gln Arg Leu Ile Tyr Gln	Gln Gln Val Ser Ser Leu	Glu Ala Gln Arg
210	215	220
Lys Ala Leu Ala Glu Gln	Ser Glu Ile Ile Gln Ala	Gln Leu Val Asn
225	230	235
Arg Lys Gln Lys Leu Glu	Ser Val Glu Leu Ser Ser	Gln Ser Glu Ile
245	250	255
Gln His Leu Ser Ser Lys	Leu Glu Arg Ala Asn Asp	Thr Ile Cys Ala
260	265	270
Asn Glu Leu Glu Ile Glu	Arg Leu Thr Met Arg Val	Asn Asp Leu Val
275	280	285
Gly Thr Ser Met Thr Val	Leu Gln Glu Gln Gln Lys	Glu Glu Lys
290	295	300
Leu Arg Glu Ser Glu Lys	Leu Leu Glu Ala Leu Gln	Glu Glu Lys Arg
305	310	315
Glu Leu Lys Ala Ala Leu	Gln Ser Gln Glu Asn Leu	Ile His Glu Ala
325	330	335
Arg Ile Gln Lys Glu Lys	Leu Gln Glu Lys Val Lys	Ala Thr Asn Thr
340	345	350
Gln His Ala Val Glu Ala	Ile Ser Leu Glu Ser Val	Ser Ala Thr Cys
355	360	365
Lys Gln Leu Ser Gln Glu	Leu Met Glu Lys Tyr Glu	Glu Leu Lys Arg
370	375	380
Met Glu Ala His Asn Asn	Glu Tyr Lys Ala Glu Ile	Lys Lys Leu Lys
385	390	395
Glu Gln Ile Leu Gln Gly	Glu Gln Ser Tyr Ser Ser	Ala Leu Glu Gly
405	410	415
Met Lys Met Glu Ile Ser	His Leu Thr Gln Glu Leu	His Gln Arg Asp
420	425	430
Ile Thr Ile Ala Ser Thr	Lys Gly Ser Ser Ser Asp	Met Glu Lys Arg
435	440	445
Leu Arg Ala Glu Met Gln	Lys Ala Glu Asp Lys Ala	Val Glu His Lys
450	455	460
Glu Ile Leu Asp Gln Leu	Glu Ser Leu Lys Leu Glu	Asn Arg His Leu
465	470	475
Ser Glu Met Val Met Lys	Leu Glu Leu Gly Leu His	Glu Cys Ser Leu
485	490	495
Pro Val Ser Pro Leu Gly	Ser Ile Ala Thr Arg Phe	Leu Glu Glu Glu
500	505	510
Glu Leu Arg Ser His His	Ile Leu Glu Arg Leu Asp	Ala His Ile Glu
515	520	525
Glu Leu Lys Arg Glu Ser	Glu Lys Thr Val Arg Gln	Phe Thr Ala Leu
530	535	540
Lys		
545		

<210> 933
 <211> 297
 <212> Amino acid
 <213> Homo sapiens

<400> 933

```

Thr Gly Phe Leu Gly Trp Ser Gln Gly Pro Ser Leu Thr Pro Thr Ser
 1          5          10          15
Leu Ser Ala Leu Tyr Pro Ser Gln Val Glu Glu Thr Gly Val Val Leu
          20          25          30
Ser Leu Glu Gln Thr Glu Gln His Ser Arg Arg Pro Ile Gln Arg Gly
          35          40          45
Ala Pro Ser Gln Lys Asp Thr Pro Asn Pro Gly Asp Ser Leu Asp Thr
          50          55          60
Pro Gly Pro Arg Ile Leu Ala Phe Leu His Pro Pro Ser Leu Ser Glu
          65          70          75          80
Ala Ala Leu Ala Ala Asp Pro Arg Arg Phe Cys Ser Pro Asp Leu Arg
          85          90          95
Arg Leu Leu Gly Pro Ile Leu Asp Gly Ala Ser Val Ala Ala Thr Pro
          100          105          110
Ser Thr Pro Leu Ala Thr Arg His Pro Gln Ser Pro Leu Ser Ala Asp
          115          120          125
Leu Pro Asp Glu Leu Pro Val Gly Thr Glu Asn Val His Arg Leu Phe
          130          135          140
Thr Ser Gly Lys Asp Thr Glu Ala Val Glu Thr Asp Leu Asp Ile Ala
          145          150          155          160
Gln Asp Ala Asp Ala Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Ser
          165          170          175
Met Asp Asp Asp Phe Gln Leu Asn Ala Ser Glu Gln Leu Pro Arg Ala
          180          185          190
Tyr His Arg Pro Leu Gly Ala Val Pro Arg Pro Arg Ala Arg Ser Phe
          195          200          205
His Gly Leu Ser Pro Pro Ala Leu Glu Pro Ser Leu Leu Pro Arg Trp
          210          215          220
Gly Ser Asp Pro Arg Leu Ser Cys Ser Ser Pro Ser Arg Gly Asp Pro
          225          230          235          240
Ser Ala Ser Ser Pro Met Ala Gly Ala Arg Lys Arg Thr Leu Ala Gln
          245          250          255
Ser Ser Lys Asp Glu Asp Glu Gly Val Glu Leu Leu Gly Val Arg Pro
          260          265          270
Pro Lys Arg Ser Pro Ser Pro Glu His Glu Asn Phe Leu Leu Phe Pro
          275          280          285
Leu Ser Leu Ser Phe Leu Leu Thr Gly
          290          295          297

```

<210> 934

<211> 140

<212> Amino acid

<213> Homo sapiens

<400> 934

```

Glu Leu Gln Asp Cys Phe Asp Val His Asp Ala Ser Trp Glu Glu Gln
 1          5          10          15
Ile Phe Trp Gly Trp His Asn Asp Val His Ile Phe Asp Thr Lys Thr
          20          25          30
Gln Thr Trp Phe Gln Pro Glu Ile Lys Gly Gly Val Pro Pro Gln Pro
          35          40          45
Arg Ala Ala His Thr Cys Ala Val Leu Gly Asn Lys Gly Tyr Ile Phe
          50          55          60
Gly Gly Arg Val Leu Gln Thr Arg Met Asn Asp Leu His Tyr Leu Asn
          65          70          75          80
Leu Asp Thr Trp Thr Trp Ser Gly Arg Ile Thr Ile Asn Gly Glu Ser

```

```
<210> 935
<211> 97
<212> Amino acid
<213> Homo sapiens
```

```
<210> 936
<211> 245
<212> Amino acid
<213> Homo sapiens
```

516

```

145          150          155          160
Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly Glu Ala Arg Gly Gln
          165          170          175
His Gly Arg Ala Ala Ala Ser Val Pro Pro Thr Ala Arg Pro Gln Ala
          180          185          190
His Cys Ser Phe Leu Cys Asp Trp Leu His Ser Pro Val Arg Thr Lys
          195          200          205
Trp Glu Glu Val Ser Leu Phe Ser Arg Val Val Ser Ser Val Cys Asp
          210          215          220
Leu Pro Leu Leu Ser Ser Ser Arg Gly Thr Trp Pro Phe Ser Pro Leu
225          230          235          240
Thr Ser Pro Phe His
          245

```

```

<210> 937
<211> 211
<212>Amino acid
<213> Homo sapiens

```

```

<400> 937
Ala Glu Cys Leu Glu Ala Ser Ile Ala Arg Tyr Ala His Arg Val Ala
 1          5          10          15
Asn Ser Arg Tyr Thr Phe Asp Gly Glu Thr Val Thr Leu Ser Pro Ser
          20          25          30
Gln Gly Val Asn Gln Leu His Gly Gly Pro Glu Gly Phe Asp Lys Arg
          35          40          45
Arg Trp Gln Ile Val Asn Gln Asn Asp Arg Gln Val Leu Phe Ala Leu
          50          55          60
Ser Ser Asp Asp Gly Asp Gln Gly Phe Pro Gly Asn Leu Gly Ala Thr
          65          70          75          80
Val Gln Tyr Arg Leu Thr Asp Asp Asn Arg Ile Ser Ile Thr Tyr Arg
          85          90          95
Ala Thr Val Asp Lys Pro Cys Pro Val Asn Met Thr Asn His Val Tyr
          100          105          110
Phe Asn Leu Asp Gly Glu Gln Ser Asp Val Arg Asn His Lys Leu Gln
          115          120          125
Ile Leu Ala Asp Glu Tyr Leu Pro Val Asp Glu Gly Gly Ile Pro His
          130          135          140
Asp Gly Leu Lys Ser Val Ala Gly Thr Ser Phe Asp Phe Arg Ser Ala
145          150          155          160
Lys Ile Ile Ala Ser Glu Phe Leu Ala Asp Asp Asp Gln Arg Lys Val
          165          170          175
Lys Gly Tyr Asp His Ala Phe Leu Leu Gln Ala Lys Gly Asp Gly Lys
          180          185          190
Lys Val Ala Ala His Val Trp Ser Ala Asp Glu Lys Leu Gln Leu Lys
          195          200          205
Val Tyr Thr
210 211

```

```

<210> 938
<211> 118
<212>Amino acid
<213> Homo sapiens

```


<400> 938

```

Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met
 1           5           10           15
Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln
           20           25           30
His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu
           35           40           45
Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu
           50           55           60
His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala
           65           70           75           80
Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn
           85           90           95
Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg
           100          105          110
Ala Ser Cys Leu Phe Leu
           115          118

```

<210> 939

<211> 143

<212>Amino acid

<213> Homo sapiens

<400> 939

```

Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu Glu
 1           5           10           15
Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu
           20           25           30
Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe
           35           40           45
Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser
           50           55           60
Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr
           65           70           75           80
Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln
           85           90           95
Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu
           100          105          110
Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu
           115          120          125
Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu
           130          135          140          143

```

<210> 940

<211> 63

<212>Amino acid

<213> Homo sapiens

<400> 940

```

Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro
 1           5           10           15
Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu
           20           25           30
Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

```

```
<210> 941
<211> 238
<212> Amino acid
<213> Homo sapiens
```

```
<210> 942
<211> 158
<212> Amino acid
<213> Homo sapiens
```

519

50	55	60																	
Lys	Val	Val	Glu	Arg	Glu	Leu	Asp	Ala	Leu	Leu	Glu	Gln	Gln	Asn	Thr				
65					70					75					80				
Ile	Glu	Ser	Lys	Met	Val	Thr	Leu	His	Arg	Met	Gly	Pro	Asn	Leu	Gln				
				85					90					95					
Leu	Ile	Glu	Gly	Asp	Ala	Lys	Gln	Leu	Ala	Gly	Met	Ile	Thr	Phe	Thr				
			100					105					110						
Cys	Asn	Leu	Ala	Glu	Asn	Val	Ser	Ser	Lys	Val	Arg	Gln	Leu	Asp	Leu				
		115					120					125							
Ala	Lys	Asn	Arg	Leu	Tyr	Gln	Ala	Ile	Gln	Arg	Ala	Asp	Asp	Ile	Leu				
	130					135					140								
Asp	Leu	Lys	Phe	Cys	Met	Asp	Gly	Val	Gln	Thr	Ala	Leu	Arg						
145					150				155				158						

<210> 943
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

<400> 943																			
Ala	Val	Glu	Phe	Arg	Val	Pro	Arg	Ser	Gly	Ser	Ala	Tyr	Leu	Tyr	Ser				
1				5					10					15					
Tyr	Val	Thr	Val	Gly	Glu	Leu	Trp	Ala	Phe	Thr	Thr	Gly	Trp	Asn	Leu				
			20					25					30						
Ile	Leu	Ser	Tyr	Val	Ile	Gly	Thr	Ala	Ser	Val	Ala	Arg	Ala	Trp	Ser				
	35					40					45								
Ser	Ala	Phe	Asp	Asn	Leu	Ile	Gly	Asn	His	Ile	Ser	Lys	Thr	Leu	Gln				
	50					55					60								
Gly	Ser	Ile	Ala	Leu	His	Val	Pro	His	Val	Leu	Ala	Glu	Tyr	Pro	Asp				
	65				70					75				80					
Phe	Phe	Ala	Leu	Gly	Leu	Val	Leu	Leu	Leu	Thr	Gly	Leu	Leu	Ala	Leu				
			85					90					95						
Gly	Ala	Ser	Glu	Ser	Ala	Leu	Val	Thr	Lys	Val	Phe	Thr	Gly	Val	Asn				
			100					105					110						
Leu	Leu	Val	Leu	Gly	Phe	Val	Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp				
	115					120					125								
Val	His	Asn	Trp	Lys	Leu	Thr	Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala				
	130				135					140									
Glu	Leu	Asn	Asp	Thr	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe				
145					150				155					160					
Val	Pro	Phe	Gly	Phe	Glu	Gly	Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe				
			165					170					175						
Tyr	Ala	Phe	Val	Gly	Phe	Asp	Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala				
			180				185						190						
Gln	Asn	Pro	Gln	Arg	Ser	Ile	Pro	Met	Gly	Ile	Gly	Ile	Ser	Leu	Ser				
	195					200					205								
Val	Cys	Phe	Leu	Ala	Asp	Phe	Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met				
	210					215					220								
Met	Pro	Tyr	Tyr	Gln	Leu	Gln	Pro	Glu	Ser	Pro									
225					230					235									

<210> 944
 <211> 284
 <212>Amino acid
 <213> Homo sapiens

<400> 944

Gly Phe His Pro Asn Thr Thr His Tyr Arg Ala Arg Ala Ala Ala Arg
 1 5 10 15
 Ala Gly Ala Gly Ser Phe Val Gly Glu Val Ser Ala Val Asp Lys Asp
 20 25 30
 Phe Gly Pro Asn Gly Glu Val Arg Tyr Ser Phe Glu Met Val Gln Pro
 35 40 45
 Asp Phe Glu Leu His Ala Ile Ser Gly Glu Ile Thr Asn Thr His Gln
 50 55 60
 Phe Asp Arg Glu Ser Leu Met Arg Arg Arg Gly Thr Ala Val Phe Ser
 65 70 75 80
 Phe Thr Val Ile Ala Thr Asp Gln Gly Ile Pro Gln Pro Leu Lys Asp
 85 90 95
 Gln Ala Thr Val His Val Tyr Met Lys Asp Ile Asn Asp Asn Ala Pro
 100 105 110
 Lys Phe Leu Lys Asp Phe Tyr Gln Ala Thr Ile Ser Glu Ser Ala Ala
 115 120 125
 Asn Leu Thr Gln Val Leu Arg Val Ser Ala Ser Asp Val Asp Glu Gly
 130 135 140
 Asn Asn Gly Leu Ile His Tyr Ser Ile Ile Lys Gly Asn Glu Glu Arg
 145 150 155 160
 Gln Phe Ala Ile Asp Ser Thr Ser Gly Gln Val Thr Leu Ile Gly Lys
 165 170 175
 Leu Asp Tyr Glu Ala Thr Pro Ala Tyr Ser Leu Val Ile Gln Ala Val
 180 185 190
 Asp Ser Gly Thr Ile Pro Leu Asn Ser Thr Cys Thr Leu Asn Ile Asp
 195 200 205
 Ile Leu Asp Glu Asn Asp Asn Thr Pro Phe Phe Leu Leu Asn Gln His
 210 215 220
 Phe Phe Val Asp Val Leu Glu Asn Met Arg Ile Gly Glu Leu Gly Ala
 225 230 235 240
 Ser Gly Thr Ala Thr Asp Ser Asp Ser Gly Asp Ile Ala Asp Leu Tyr
 245 250 255
 Tyr Lys Phe Thr Gly Thr Lys His Pro Pro Gly Thr Phe Ser Ile Ser
 260 265 270
 Pro Lys His Leu Gly Val Phe Phe Leu Ala Gln Lys
 275 280 284

<210> 945

<211> 119

<212> Amino acid

<213> Homo sapiens

<400> 945

Gly Asp Cys Tyr Asp Leu Tyr Gly Gly Glu Lys Phe Ala Thr Leu Ala
 1 5 10 15
 Glu Leu Val Gln Tyr Tyr Met Glu His His Gly Gln Leu Lys Glu Lys
 20 25 30
 Asn Gly Asp Val Ile Glu Leu Lys Asn Pro Leu Asn Cys Ala Asp Pro
 35 40 45
 Thr Ser Gln Arg Trp Phe His Gly His Leu Ser Gly Lys Glu Ala Glu
 50 55 60
 Lys Leu Leu Thr Glu Lys Gly Lys His Ser Ser Phe Leu Val Arg Glu
 65 70 75 80
 Ser Gln Ser His Pro Gly Asp Phe Val Leu Ser Val Cys Thr Gly Asp
 85 90 95
 Asp Lys Gly Glu Ser Asn Asp Gly Lys Ser Lys Val Thr His Val Met

```

          100          105          110
Ile His Cys Gln Glu Leu Lys
          115          119

```

```
<210> 946
<211> 166
<212> Amino acid
<213> Homo sapiens
```

[illegible]

```
<210> 947
<211> 121
<212> Amino acid
<213> Homo sapiens
```

<400> 947															
Ser	Ile	Leu	Pro	Ala	Leu	Leu	Val	Thr	Ile	Leu	Ile	Phe	Met	Asp	Gln
1				5					10					15	
Gln	Ile	Thr	Ala	Val	Ile	Val	Asn	Arg	Lys	Glu	Asn	Lys	Leu	Lys	Lys
			20					25					30		
Ala	Ala	Gly	Tyr	His	Leu	Asp	Leu	Phe	Trp	Val	Gly	Ile	Leu	Met	Ala
		35					40					45			
Leu	Cys	Ser	Phe	Met	Gly	Leu	Pro	Trp	Tyr	Val	Ala	Ala	Thr	Val	Ile
	50					55					60				
Ser	Ile	Ala	His	Ile	Asp	Ser	Leu	Lys	Met	Glu	Thr	Glu	Thr	Ser	Ala
65				70						75					80
Pro	Gly	Glu	Gln	Pro	Gln	Phe	Leu	Gly	Val	Arg	Glu	Gln	Arg	Val	Thr
				85					90					95	
Gly	Ile	Ile	Val	Phe	Ile	Leu	Thr	Gly	Ile	Ser	Val	Phe	Leu	Ala	Pro
			100					105					110		
Ile	Leu	Lys	Cys	Ile	Pro	Leu	Pro	Val							

115

120 121

<210> 948
 <211> 191
 <212>Amino acid
 <213> Homo sapiens

<400> 948
 Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp
 1 5 10 15
 Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr
 20 25 30
 Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr
 35 40 45
 Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val
 50 55 60
 Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser
 65 70 75 80
 Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser
 85 90 95
 Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile
 100 105 110
 Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly
 115 120 125
 Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp
 130 135 140
 Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr
 145 150 155 160
 Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val
 165 170 175
 Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser
 180 185 190 191

<210> 949
 <211> 98
 <212>Amino acid
 <213> Homo sapiens

<400> 949
 Phe Phe Ser Ser Ile Gln Leu Thr Asp Asp Gln Gly Pro Val Leu Met
 1 5 10 15
 Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser
 20 25 30
 Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu
 35 40 45
 Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro
 50 55 60
 Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser
 65 70 75 80
 Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr
 85 90 95
 Ala Cys
 98

<210> 950
 <211> 196
 <212>Amino acid
 <213> Homo sapiens

<400> 950
 Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser
 1 5 10 15
 Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr
 20 25 30
 Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr
 35 40 45
 Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln
 50 55 60
 Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg
 65 70 75 80
 Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu
 85 90 95
 Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val
 100 105 110
 Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile
 115 120 125
 Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val
 130 135 140
 Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala
 145 150 155 160
 Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val
 165 170 175
 Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Lys Ile
 180 185 190
 His Pro Gln Tyr
 195 196

<210> 951
 <211> 721
 <212>Amino acid
 <213> Homo sapiens

<400> 951
 Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr
 1 5 10 15
 Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Val Gly
 20 25 30
 Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu
 35 40 45
 Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile
 50 55 60
 Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Ala Met Leu Asn Asn
 65 70 75 80
 Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val
 85 90 95
 Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly
 100 105 110
 Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

115	120	125
Ala Phe Asp Pro Pro Asn Phe	Pro Ile Cys Leu Leu Gly Asn Arg Thr	
130	135	140
Leu Ser Arg His Gly Phe Asp	Val Cys Ala Lys Leu Ala Trp Glu Gly	
145	150	155
Asn Glu Thr Val Thr Thr Arg	Leu Trp Gly Leu Phe Cys Ser Ser Arg	160
165	170	175
Phe Leu Asn Ala Thr Cys Asp	Glu Tyr Phe Thr Arg Asn Asn Val Thr	
180	185	190
Glu Ile Gln Gly Ile Pro Gly	Ala Ala Ser Gly Leu Ile Lys Glu Asn	
195	200	205
Leu Trp Ser Ser Tyr Leu Thr	Lys Gly Val Ile Val Glu Arg Ser Gly	
210	215	220
Met Thr Ser Val Gly Leu Ala	Asp Gly Thr Pro Ile Asp Met Asp His	240
225	230	235
Pro Tyr Val Phe Ser Asp Met	Thr Ser Tyr Phe Thr Leu Leu Val Gly	
245	250	255
Ile Tyr Phe Pro Ser Val Thr	Gly Ile Met Ala Gly Ser Asn Arg Ser	
260	265	270
Gly Asp Leu Arg Asp Ala Gln	Lys Ser Ile Pro Thr Gly Thr Ile Leu	
275	280	285
Ala Ile Ala Thr Thr Ser Ala	Val Tyr Ile Ser Ser Val Val Leu Phe	
290	295	300
Gly Ala Cys Ile Glu Gly Val	Val Leu Arg Asp Lys Phe Gly Glu Ala	320
305	310	315
Val Asn Gly Asn Leu Val Val	Gly Thr Leu Ala Trp Pro Ser Pro Trp	335
325	330	335
Val Ile Val Ile Gly Ser Phe	Phe Ser Thr Cys Gly Ala Gly Leu Gln	
340	345	350
Ser Leu Thr Gly Ala Pro Arg	Leu Leu Gln Ala Ile Ser Arg Asp Gly	
355	360	365
Ile Val Pro Phe Leu Gln Val	Phe Gly His Gly Lys Ala Asn Gly Glu	
370	375	380
Pro Thr Trp Ala Leu Leu Leu	Thr Ala Cys Ile Cys Glu Ile Gly Ile	
385	390	395
Leu Ile Ala Ser Leu Asp Glu	Val Ala Pro Ile Leu Ser Met Phe Phe	415
405	410	415
Leu Met Cys Tyr Met Phe Val	Asn Leu Ala Cys Ala Val Gln Thr Leu	
420	425	430
Leu Arg Thr Pro Asn Trp Arg	Pro Arg Phe Arg Tyr Tyr His Trp Thr	
435	440	445
Leu Ser Phe Leu Gly Met Ser	Leu Cys Leu Ala Leu Met Phe Ile Cys	
450	455	460
Ser Trp Tyr Tyr Ala Leu Val	Ala Met Leu Ile Ala Gly Leu Ile Tyr	480
465	470	475
Lys Tyr Ile Glu Tyr Arg Gly	Ala Lys Lys Glu Trp Gly Asp Gly Ile	495
485	490	495
Arg Gly Leu Ser Leu Ser Ala	Ala Arg Tyr Ala Leu Leu Arg Leu Glu	
500	505	510
Glu Gly Pro Pro His Thr Lys	Asn Trp Arg Pro Gln Leu Leu Val Leu	
515	520	525
Val Arg Val Asp Gln Asp Gln	Asn Val Val His Pro Gln Leu Leu Ser	
530	535	540
Leu Thr Ser Gln Leu Lys Ala	Gly Lys Gly Leu Thr Ile Val Gly Ser	560
545	550	555
Val Leu Glu Gly Thr Phe Leu	Glu Asn His Pro Gln Ala Gln Arg Ala	
565	570	575
Glu Glu Ser Ile Arg Arg Leu	Met Glu Ala Glu Lys Val Lys Gly Phe	
580	585	590
Cys Gln Val Val Ile Ser Ser	Asn Leu Arg Asp Gly Val Ser His Leu	
595	600	605
Ile Gln Ser Gly Gly Leu Gly	Gly Leu Gln His Asn Thr Val Leu Val	
610	615	620
Gly Trp Pro Arg Asn Trp Arg	Gln Lys Glu Asp His Gln Thr Trp Arg	


```

625          630          635          640
Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu
          645          650          655
Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe
          660          665          670
Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met
          675          680          685
Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys
          690          695          700
Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala
705          710          715          720
Met
721

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```

<210> 952
<211> 42
<212>Amino acid
<213> Homo sapiens

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```

<400> 952
Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys
 1          5          10          15
Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala
          20          25          30
Ser Gly Ser Asp Asp Ala Lys Gly Thr Val
          35          40          42

```

```

<210> 953
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 953
Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu
 1          5          10          15
Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala
          20          25          30
Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val
          35          40          45
Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile
          50          55          60
Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro
65          70          75          80

```

```

<210> 954
<211> 202
<212>Amino acid
<213> Homo sapiens

```

<400> 954
 Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val
 1 5 10 15
 Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu
 20 25 30
 Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys
 35 40 45
 His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly
 50 55 60
 Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn
 65 70 75 80
 Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro
 85 90 95
 Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg
 100 105 110
 Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu
 115 120 125
 Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr
 130 135 140
 Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala
 145 150 155 160
 Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu
 165 170 175
 Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr
 180 185 190
 Pro Val Gly Asp Pro Met Asp Leu Lys Met
 195 200 202

<210> 955
 <211> 188
 <212> Amino acid
 <213> Homo sapiens

<400> 955
 Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr
 1 5 10 15
 Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln
 20 25 30
 Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu
 35 40 45
 Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln
 50 55 60
 Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser
 65 70 75 80
 His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala
 85 90 95
 Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln
 100 105 110
 Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys
 115 120 125
 Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile
 130 135 140
 Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr
 145 150 155 160
 Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala
 165 170 175
 Asn Arg Leu Gln Asp Ala Ile Ala Lys Gly Arg Gly

180

185

188

<210> 956
 <211> 132
 <212>Amino acid
 <213> Homo sapiens

<400> 956
 Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly
 1 5 10 15
 Glu Ala Val Thr Glu Glu Ser Pro Ala Pro Pro Asn Glu Ala Thr Pro
 20 25 30
 Thr Ala Ala Pro Pro Thr Leu Pro Pro Thr Thr Val Gly Ala Thr Gly
 35 40 45
 Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala
 50 55 60
 Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr
 65 70 75 80
 Thr Thr Thr Val Ala Thr Thr Thr Thr Thr Thr Ala Ala Ala Thr Thr
 85 90 95
 Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu
 100 105 110
 Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn
 115 120 125
 Ser Lys Trp Ala
 130 132

<210> 957
 <211> 220
 <212>Amino acid
 <213> Homo sapiens

<400> 957
 Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser
 1 5 10 15
 Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr
 20 25 30
 Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala
 35 40 45
 Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala
 50 55 60
 Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr
 65 70 75 80
 Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser
 85 90 95
 Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn
 100 105 110
 Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly
 115 120 125
 Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp
 130 135 140
 Phe Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe
 145 150 155 160
 Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser

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                165                170                175
Asp Pro Phe Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe
                180                185                190
Gly Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly
                195                200                205
Phe Ala Asp Phe Ser Thr Ile Glu Gly Arg Arg Gly
                210                215                220

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<210> 958
<211> 250
<212>Amino acid
<213> Homo sapiens

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```

<400> 958
Arg Thr Arg Gly Gly Ser Gly Asn Ser Ser Gln Pro Ser Leu Arg Glu
  1                5                10                15
Gly His Asp Lys Pro Val Phe Asn Gly Ala Gly Lys Pro His Ser Ser
  20                25                30
Thr Ser Ser Pro Ser Val Pro Lys Thr Ser Ala Ser Arg Thr Gln Lys
  35                40                45
Ser Ala Val Glu His Lys Ala Lys Lys Ser Leu Ser His Pro Ser His
  50                55                60
Ser Arg Pro Gly Pro Met Val Thr Pro His Asn Lys Ala Lys Ser Pro
  65                70                75                80
Gly Val Arg Gln Pro Gly Ser Ser Ser Ser Ala Pro Gly Gln Pro
  85                90                95
Ser Thr Gly Val Ala Arg Pro Thr Val Ser Ser Gly Pro Val Pro Arg
  100               105               110
Arg Gln Asn Gly Ser Ser Ser Ser Gly Pro Glu Arg Ser Ile Ser Gly
  115               120               125
Ser Lys Lys Pro Thr Asn Asp Ser Asn Pro Ser Arg Arg Thr Val Ser
  130               135               140
Gly Thr Cys Gly Pro Gly Gln Pro Ala Ser Ser Ser Gly Gly Pro Gly
  145               150               155               160
Arg Pro Ile Ser Gly Ser Val Ser Ser Ala Arg Pro Leu Gly Ser Ser
  165               170               175
Arg Gly Pro Gly Arg Pro Val Ser Ser Pro His Glu Leu Arg Arg Pro
  180               185               190
Val Ser Gly Leu Gly Pro Pro Gly Arg Ser Val Ser Gly Pro Gly Arg
  195               200               205
Ser Ile Ser Gly Ser Ile Pro Ala Gly Arg Thr Val Ser Asn Ser Val
  210               215               220
Pro Gly Arg Pro Val Ser Ser Leu Gly Pro Gly Gln Thr Val Ser Ser
  225               230               235               240
Ser Gly Pro Thr Ile Lys Pro Lys Cys Thr
  245               250

```

```

<210> 959
<211> 48
<212>Amino acid
<213> Homo sapiens

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```

<400> 959
Arg Gly Lys Gly Ile Thr Pro Arg Tyr His Leu Cys Ile Ser Asp Pro

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```

      1           5           10           15
His Asn Leu Lys Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser
      20           25           30
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp
      35           40           45           48

```

<210> 960
 <211> 63
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 960
Val Val Ala Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu
      1           5           10           15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly
      20           25           30
Glu Val Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala
      35           40           45
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met
      50           55           60           63

```

<210> 961
 <211> 59
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 961
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr
      1           5           10           15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro
      20           25           30
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val
      35           40           45
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu
      50           55           59

```

<210> 962
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 962
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg
      1           5           10           15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu
      20           25           30
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro

```

```

      35              40              45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln
      50              55              60
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg
      65              70              75              80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His
      85              90              95
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser
      100              105              110
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu
      115              120              125
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp
      130              135              140

```

<210> 963
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 963
Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln
      1              5              10              15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser
      20              25              30
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys
      35              40              45
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln
      50              55              60
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys
      65              70              75              80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu
      85              90              95
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe
      100              105              110
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr
      115              120              125
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe
      130              135              140
Lys Gly Leu Asn Val Leu Lys Gln Cys
      145              150              153

```

<210> 964
 <211> 54
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 964
Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala
      1              5              10              15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly
      20              25              30
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys
      35              40              45
Gly Lys Glu Ile Val Lys

```

50

54

<210> 965
 <211> 39
 <212>Amino acid
 <213> Homo sapiens

<400> 965
 Gly Phe Val Phe Leu Pro Gly Pro Met Ser Val Gly Leu Asp Phe Ser
 1 5 10 15
 Leu Pro Gly Met Glu His Val Tyr Gly Ile Pro Glu His Ala Asp Asn
 20 25 30
 Leu Arg Leu Lys Val Thr Glu
 35 39

<210> 966
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 966
 Gly Ser Glu Cys Gln Gly Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser
 1 5 10 15
 Asp Leu Cys Val His Thr Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr
 20 25 30
 Val Gly Leu Ile Ala Val Ala Val Cys Leu Val Leu Leu Leu Val
 35 40 45
 Leu Ile Leu Val Tyr Cys Arg Lys Lys Glu Gly Leu Asp Ser Asp Val
 50 55 60
 Ala Asp Ser Ser Ile Leu Thr Ser Gly Phe Gln Pro Val Ser Ile Lys
 65 70 75 80
 Pro Ser Lys Ala Asp Asn Pro His Leu Leu Thr Ile Gln Pro Asp Leu
 85 90 95
 Ser Thr Thr Thr Thr Thr Tyr Gln Gly Ser Leu Cys Pro Arg Gln Asp
 100 105 110
 Gly Pro Ser Pro Lys Phe Gln Leu Thr Asn Gly His Leu Leu Ser Pro
 115 120 125
 Leu Gly
 130

<210> 967
 <211> 259
 <212>Amino acid
 <213> Homo sapiens

<400> 967
 Leu Ile Tyr Asn Glu Asp Met Ile Cys Trp Ile Glu Ser Arg Glu Ser
 1 5 10 15
 Ser Asn Gln Leu Lys Cys Ile Gln Ile Thr Lys Ala Gly Gly Leu Thr

```

      20      25      30
Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln
      35      40      45
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val
      50      55      60
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr
      65      70      75      80
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro
      85      90      95
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val
      100      105      110
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser
      115      120      125
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu
      130      135      140
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr
      145      150      155      160
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His
      165      170      175
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser
      180      185      190
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile
      195      200      205
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln
      210      215      220
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro
      225      230      235      240
Tyr Gly Met Pro Gly Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser
      245      250      255
Tyr Thr Lys
      259

```

<210> 968
 <211> 161
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 968
Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly
      1      5      10      15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln
      20      25      30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser
      35      40      45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn
      50      55      60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala
      65      70      75      80
Ser Val Arg Ala Thr His Pro Ile Pro Ala Cys Gly Ile Tyr Tyr
      85      90      95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile
      100      105      110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp
      115      120      125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser
      130      135      140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val
      145      150      155      160
Ile

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161

<210> 969
 <211> 76
 <212> Amino acid
 <213> Homo sapiens

<400> 969
 Phe Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val
 1 5 10 15
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr
 20 25 30
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro
 35 40 45
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His
 50 55 60
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser
 65 70 75 76

<210> 970
 <211> 267
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> X = any amino acid or stop code

<400> 970
 Gln Leu Ser Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe
 1 5 10 15
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys Ser Thr Ile
 20 25 30
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val
 35 40 45
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val
 50 55 60
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly
 65 70 75 80
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe
 85 90 95
 Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser
 100 105 110
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser Gln Leu Pro
 115 120 125
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu
 130 135 140
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu
 145 150 155 160
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr
 165 170 175
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys
 180 185 190

Val	Gln	Thr	Val	Ala	Ile	Ile	Gly	Pro	Ile	Phe	Gly	Phe	Leu	Leu	Gly
		195					200					205			
Ser	Leu	Cys	Ala	Lys	Leu	Tyr	Val	Asp	Ile	Gly	Phe	Val	Asn	Leu	Asp
	210					215					220				
His	Phe	Xaa	Val	Ser	Ala	Gln	Leu	Gly	Thr	Arg	Lys	Gly	Val	Leu	Val
225					230					235					240
Cys	Leu	Val	Phe	Cys	Leu	Leu	Cys	Gln	Ser	Ile	Gly	Arg	Arg	Leu	Ser
				245					250					255	
Glu	Glu	His	His	Ser	Asp	Arg	Glu	Lys	Gly						
			260				265		267						

<210> 971
 <211> 282
 <212>Amino acid
 <213> Homo sapiens

<400> 971															
Gln	Pro	Ala	Gly	Arg	Val	Glu	Ala	Phe	Cys	Lys	Phe	His	Met	Trp	Ala
1				5					10					15	
Glu	Gly	Met	Thr	Ser	Leu	Met	Lys	Ala	Ala	Leu	Asp	Leu	Thr	Tyr	Pro
		20					25					30			
Ile	Thr	Ser	Met	Phe	Ser	Gly	Ala	Gly	Phe	Asn	Ser	Ser	Ile	Phe	Ser
	35					40					45				
Val	Phe	Lys	Asp	Gln	Gln	Ile	Glu	Asp	Leu	Trp	Ile	Pro	Tyr	Phe	Ala
50					55					60					
Ile	Thr	Thr	Asp	Ile	Thr	Ala	Ser	Ala	Met	Arg	Val	His	Thr	Asp	Gly
65				70					75					80	
Ser	Leu	Trp	Arg	Tyr	Val	Arg	Ala	Ser	Met	Ser	Leu	Ser	Gly	Tyr	Met
			85					90						95	
Pro	Pro	Leu	Cys	Asp	Pro	Lys	Asp	Gly	His	Leu	Leu	Met	Asp	Gly	Gly
		100					105					110			
Tyr	Ile	Asn	Asn	Leu	Pro	Ala	Asp	Val	Ala	Arg	Ser	Met	Gly	Ala	Lys
	115					120					125				
Val	Val	Ile	Ala	Ile	Asp	Val	Gly	Ser	Arg	Asp	Glu	Thr	Asp	Leu	Thr
130					135					140					
Asn	Tyr	Gly	Asp	Ala	Leu	Ser	Gly	Trp	Trp	Leu	Leu	Trp	Lys	Arg	Trp
145				150						155				160	
Asn	Pro	Leu	Ala	Thr	Lys	Val	Lys	Val	Leu	Asn	Met	Ala	Glu	Ile	Gln
			165					170					175		
Thr	Arg	Leu	Ala	Tyr	Val	Cys	Cys	Val	Arg	Gln	Leu	Glu	Val	Val	Lys
		180					185					190			
Ser	Ser	Asp	Tyr	Cys	Glu	Tyr	Leu	Arg	Pro	Pro	Ile	Asp	Ser	Tyr	Ser
		195				200					205				
Thr	Leu	Asp	Phe	Gly	Lys	Phe	Asn	Glu	Ile	Cys	Glu	Val	Gly	Tyr	Gln
	210				215						220				
His	Gly	Arg	Thr	Val	Phe	Asp	Ile	Trp	Gly	Arg	Ser	Gly	Val	Leu	Glu
225				230					235					240	
Lys	Met	Leu	Arg	Asp	Gln	Gln	Gly	Pro	Ser	Lys	Lys	Pro	Ala	Ser	Ala
				245					250					255	
Val	Leu	Thr	Cys	Pro	Asn	Ala	Ser	Phe	Thr	Asp	Leu	Ala	Glu	Ile	Val
		260					265						270		
Ser	Arg	Ile	Glu	Pro	Ala	Lys	Pro	Ala	Met						
		275					280		282						

<210> 972
 <211> 167
 <212>Amino acid
 <213> Homo sapiens

<400> 972
 Leu Trp Val Ile Met Phe Val Ser Tyr Leu Ile Leu Thr Leu Leu His
 1 5 10 15
 Val Gln Thr Ala Val Leu Ala Arg Pro Gly Gly Glu Ser Ile Gly Cys
 20 25 30
 Asp Asp Tyr Leu Gly Ser Asp Lys Val Val Asp Lys Cys Gly Val Cys
 35 40 45
 Gly Gly Asp Asn Thr Gly Cys Gln Val Val Ser Gly Val Phe Lys His
 50 55 60
 Ala Leu Thr Ser Leu Gly Tyr His Arg Val Val Glu Ile Pro Glu Gly
 65 70 75 80
 Ala Thr Lys Ile Asn Ile Thr Glu Met Tyr Lys Ser Asn Asn Tyr Leu
 85 90 95
 Ala Leu Arg Ser Arg Ser Gly Arg Ser Ile Ile Asn Gly Asn Trp Ala
 100 105 110
 Ile Asp Arg Pro Gly Lys Tyr Glu Gly Gly Gly Thr Met Phe Thr Tyr
 115 120 125
 Lys Arg Pro Asn Glu Ile Ser Ser Thr Ala Gly Glu Ser Phe Leu Ala
 130 135 140
 Glu Gly Pro Thr Asn Glu Ile Leu Asp Val Tyr Val Ser Leu Asp Val
 145 150 155 160
 Ser Gly Leu Phe Phe Gly Phe
 165 167

<210> 973
 <211> 140
 <212> Amino acid
 <213> Homo sapiens

<400> 973
 Ile Ser Gly Gly Thr Arg Ser Ala Gly Pro Leu Arg Arg Asn Tyr Asn
 1 5 10 15
 Phe Ile Ala Ala Val Val Glu Lys Val Ala Pro Ser Val Val His Val
 20 25 30
 Gln Leu Trp Gly Arg Asn Gln Gln Trp Ile Glu Val Val Leu Gln Asn
 35 40 45
 Gly Ala Arg Tyr Glu Ala Val Val Lys Asp Ile Asp Leu Lys Leu Asp
 50 55 60
 Leu Ala Val Ile Lys Ile Glu Ser Asn Ala Glu Leu Pro Val Leu Met
 65 70 75 80
 Leu Gly Arg Ser Ser Asp Leu Arg Ala Gly Glu Phe Val Val Ala Leu
 85 90 95
 Gly Ser Pro Phe Ser Leu Gln Asn Thr Ala Thr Ala Gly Ile Val Ser
 100 105 110
 Thr Lys Gln Arg Gly Gly Lys Glu Leu Gly Met Lys Asp Ser Asp Met
 115 120 125
 Asp Tyr Val Gln Ile Asp Ala Thr Ile Asn Tyr Gly
 130 135 140

<210> 974
 <211> 286
 <212> Amino acid
 <213> Homo sapiens

<400> 974

Pro	Arg	Val	Arg	Glu	Leu	Lys	Glu	Ile	Leu	Asp	Arg	Lys	Gly	His	Phe
1				5					10					15	
Ser	Glu	Asn	Glu	Thr	Arg	Trp	Ile	Ile	Gln	Ser	Leu	Ala	Ser	Ala	Ile
			20				25					30			
Ala	Tyr	Leu	His	Asn	Asn	Asp	Ile	Val	His	Arg	Asp	Leu	Lys	Leu	Glu
	35					40					45				
Asn	Ile	Met	Val	Lys	Ser	Ser	Leu	Ile	Asp	Asp	Asn	Asn	Glu	Ile	Asn
	50				55					60					
Leu	Asn	Ile	Lys	Val	Thr	Asp	Phe	Gly	Leu	Ala	Val	Lys	Lys	Gln	Ser
65				70					75					80	
Arg	Ser	Glu	Ala	Met	Leu	Gln	Ala	Thr	Cys	Gly	Thr	Pro	Ile	Tyr	Met
			85					90					95		
Ala	Pro	Glu	Val	Ile	Ser	Ala	His	Asp	Tyr	Ser	Gln	Gln	Cys	Asp	Ile
		100						105				110			
Trp	Ser	Ile	Gly	Val	Val	Met	Tyr	Met	Leu	Leu	Arg	Gly	Glu	Pro	Pro
	115					120					125				
Phe	Leu	Ala	Ser	Ser	Glu	Glu	Lys	Leu	Phe	Glu	Leu	Ile	Arg	Lys	Gly
	130				135				140						
Glu	Leu	His	Phe	Glu	Asn	Ala	Val	Trp	Asn	Ser	Ile	Ser	Asp	Cys	Ala
145				150					155					160	
Lys	Ser	Val	Leu	Lys	Gln	Leu	Met	Lys	Val	Asp	Pro	Ala	His	Arg	Ile
			165					170					175		
Thr	Ala	Lys	Glu	Leu	Leu	Asp	Asn	Gln	Trp	Leu	Thr	Gly	Asn	Lys	Leu
		180						185					190		
Ser	Ser	Val	Arg	Pro	Thr	Asn	Val	Leu	Glu	Met	Met	Lys	Glu	Trp	Lys
	195					200						205			
Asn	Asn	Pro	Glu	Ser	Val	Glu	Glu	Asn	Thr	Thr	Glu	Glu	Lys	Asn	Lys
	210				215						220				
Pro	Ser	Thr	Glu	Glu	Lys	Leu	Lys	Ser	Tyr	Gln	Pro	Trp	Gly	Asn	Val
225				230					235					240	
Pro	Glu	Thr	Asn	Tyr	Thr	Ser	Asp	Glu	Glu	Glu	Glu	Lys	Gln	Val	Gly
			245					250					255		
Arg	Ile	Ile	Ala	Ala	Phe	Leu	Pro	Ser	Val	Lys	Tyr	Pro	His	His	Thr
	260							265					270		
Trp	Asn	Ile	Phe	Leu	Gln	Ile	Cys	Leu	Phe	Val	Val	Ser	Leu		
	275						280					285	286		

<210> 975
 <211> 155
 <212> Amino acid
 <213> Homo sapiens

<400> 975

Leu	Ser	Ile	Ser	Val	Ser	Asp	Val	Ser	Leu	Ser	Asp	Glu	Gly	Gln	Tyr
1				5					10					15	
Thr	Cys	Ser	Leu	Phe	Thr	Met	Pro	Val	Lys	Thr	Ser	Lys	Ala	Tyr	Leu
			20					25				30			
Thr	Val	Leu	Gly	Val	Pro	Glu	Lys	Pro	Gln	Ile	Ser	Gly	Phe	Ser	Ser
	35					40						45			
Pro	Val	Met	Glu	Gly	Asp	Leu	Met	Gln	Leu	Thr	Cys	Lys	Thr	Ser	Gly
	50				55					60					
Ser	Lys	Pro	Ala	Ala	Asp	Ile	Arg	Trp	Phe	Lys	Asn	Asp	Lys	Glu	Ile
65					70				75					80	

Lys Asp Val Lys Tyr Leu Lys Glu Glu Asp Ala Asn Arg Lys Thr Phe
 85 90 95
 Thr Val Ser Ser Thr Leu Asp Phe Arg Val Asp Arg Ser Asp Asp Gly
 100 105 110
 Val Ala Val Ile Cys Arg Val Asp His Glu Ser Leu Asn Ala Thr Pro
 115 120 125
 Gln Val Ala Met Gln Val Leu Glu Met His Tyr Thr Pro Ser Val Lys
 130 135 140
 Ile Ile Pro Ser Thr Pro Phe Pro Gln Glu Gly
 145 150 155

<210> 976
 <211> 137
 <212> Amino acid
 <213> Homo sapiens

<400> 976
 Tyr Asn Gln Lys Val Asp Leu Phe Ser Leu Gly Ile Ile Phe Phe Glu
 1 5 10 15
 Met Ser Tyr His Pro Met Val Thr Ala Ser Glu Arg Ile Phe Val Leu
 20 25 30
 Asn Gln Leu Arg Asp Pro Thr Ser Pro Lys Phe Pro Glu Asp Phe Asp
 35 40 45
 Asp Gly Glu His Ala Lys Gln Lys Ser Val Ile Ser Trp Leu Leu Asn
 50 55 60
 His Asp Pro Ala Lys Arg Pro Thr Ala Thr Glu Leu Leu Lys Ser Glu
 65 70 75 80
 Leu Leu Pro Pro Pro Gln Met Glu Glu Ser Glu Leu His Glu Val Leu
 85 90 95
 His His Thr Leu Thr Asn Val Asp Gly Lys Ala Tyr Arg Thr Ile Asp
 100 105 110
 Gly Pro Arg Ser Phe Arg Gln Arg Ile Ser Pro Ala Ile Ala Tyr Thr
 115 120 125
 Tyr Asp Ser Asp Ile Leu Lys Gly Asn
 130 135 137

<210> 977
 <211> 246
 <212> Amino acid
 <213> Homo sapiens

<400> 977
 Asp Gln Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu
 1 5 10 15
 Asn Pro Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe
 20 25 30
 Glu Thr Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp
 35 40 45
 Trp Ser Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln
 50 55 60
 Lys Arg Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg
 65 70 75 80
 Thr Cys Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr
 85 90 95

Ala Ala Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala
 100 105 110
 Thr Lys Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser
 115 120 125
 Cys Lys Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp
 130 135 140
 Leu Pro Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr
 145 150 155 160
 Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp
 165 170 175
 Ala Ser Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg
 180 185 190
 Tyr Cys Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala
 195 200 205
 Gln His Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys
 210 215 220
 Gly Ala Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu
 225 230 235 240
 His Tyr Lys Val Asp Val
 245 246

<210> 978
 <211> 203
 <212>Amino acid
 <213> Homo sapiens

<400> 978
 Glu Ser Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys
 1 5 10 15
 Glu Gly Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu
 20 25 30
 Gly Ile Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Glu Gly Glu
 35 40 45
 Asp Val Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser
 50 55 60
 Thr Cys Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu
 65 70 75 80
 Ser Ala Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu
 85 90 95
 Ala Glu Ala Gly Ala Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp
 100 105 110
 Ser Met Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser
 115 120 125
 Ser Ala Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly
 130 135 140
 Lys Asp Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr
 145 150 155 160
 Ser Ala Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp
 165 170 175
 Thr Thr Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val
 180 185 190
 Ser Gly Glu Val Pro Glu Cys Glu Val Ala His
 195 200 203

<210> 979
 <211> 94
 <212>Amino acid
 <213> Homo sapiens

<400> 979

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Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala
 1           5           10           15
Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala
           20           25           30
Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu
           35           40           45
Leu Leu Lys Met Gly Gln His Gly Asn Asn Val Gln Trp Arg Ala Leu
           50           55           60
Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu
           65           70           75           80
Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe
           85           90           94

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<210> 980

<211> 226

<212>Amino acid

<213> Homo sapiens

<400> 980

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Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg
 1           5           10           15
Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile
           20           25           30
Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Gly
           35           40           45
Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His
           50           55           60
Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp
           65           70           75           80
Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp
           85           90           95
Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys
           100          105          110
Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys
           115          120          125
Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu
           130          135          140
Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr
           145          150          155          160
Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
           165          170          175
Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
           180          185          190
Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly
           195          200          205
Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys
           210          215          220
Asp Phe
225 226

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<210> 981

<211> 163

<212>Amino acid
<213> Homo sapiens

<400> 981
 Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser
 1 5 10 15
 Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu Leu
 20 25 30
 Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp
 35 40 45
 Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp
 50 55 60
 His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val
 65 70 75 80
 Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro
 85 90 95
 Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp
 100 105 110
 Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln
 115 120 125
 Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val
 130 135 140
 Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys
 145 150 155 160
 Pro Ser Val
 163

<210> 982
 <211> 327
 <212>Amino acid
 <213> Homo sapiens

<400> 982
 Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp
 1 5 10 15
 Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe
 20 25 30
 Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro
 35 40 45
 Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser
 50 55 60
 Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Gln Leu Leu Glu
 65 70 75 80
 Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln
 85 90 95
 Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp
 100 105 110
 Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val
 115 120 125
 Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr
 130 135 140
 Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr
 145 150 155 160
 Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser
 165 170 175


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Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu
      180      185      190
Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu
      195      200      205
Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Ile Thr
      210      215      220
Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu
      225      230      235      240
Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu
      245      250      255
Ala Tyr Lys Arg Lys Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser
      260      265      270
Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His
      275      280      285
Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr
      290      295      300
Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala
      305      310      315      320
Asp Pro Leu Arg Pro His Gly
      325      327

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<210> 983
<211> 110
<212>Amino acid
<213> Homo sapiens

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<400> 983
Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser
  1      5      10      15
Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr
      20      25      30
Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln
      35      40      45
Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu
      50      55      60
Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn
      65      70      75      80
Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys
      85      90      95
Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro
      100      105      110

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<210> 984
<211> 80
<212>Amino acid
<213> Homo sapiens

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```

<400> 984
Ala Pro Leu Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly
  1      5      10      15
Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly
      20      25      30
Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr
      35      40      45

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Val Gln Val Thr Ser Ala Leu Ala Pro Ile Pro Gly Ser Gly Gly Trp
 50 55 60
 Gly Gly Gly Arg Arg Gly Ala Gln Leu Thr Ser Gly Trp Thr Leu His
 65 70 75 80

<210> 985
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

<400> 985
 Pro His Ile Ile Gly Ala Glu Asp Asp Asp Phe Gly Thr Glu His Glu
 1 5 10 15
 Gln Ile Asn Gly Gln Cys Ser Cys Phe Gln Ser Ile Glu Leu Leu Lys
 20 25 30
 Ser Arg Pro Ala His Leu Ala Val Phe Leu Arg His Val Val Ser Gln
 35 40 45
 Phe Asp Pro Ala Thr Leu Leu Cys Tyr Leu Tyr Ser Asp Leu Tyr Lys
 50 55 60
 His Thr Asn Ser Lys Glu Thr Arg Arg Ile Phe Leu Glu Phe His Gln
 65 70 75 80
 Phe Phe Leu Asp Arg Ser Ala His Leu Lys Val Ser Val Pro Asp Glu
 85 90 95
 Met Ser Ala Asp Leu Glu Lys Arg Arg Pro Glu Leu Ile Pro Glu Asp
 100 105 110
 Leu His Arg His Tyr Ile Gln Thr Met Gln Glu Arg Val His Pro Glu
 115 120 125
 Val Gln Arg His Leu Glu Asp Phe Arg Gln Lys Arg Ser Met Gly Leu
 130 135 140
 Thr Leu Ala Glu Ser Glu Leu Thr Lys Leu Asp Ala Glu Arg Asp Lys
 145 150 155 160
 Asp Arg Leu Thr Leu Glu Lys Glu Arg Thr Cys Ala Glu Gln Ile Val
 165 170 175
 Ala Lys Ile Glu Glu Val Leu Met Thr Ala Gln Ala Val Glu Glu Asp
 180 185 190
 Lys Ser Ser Thr Met Gln Tyr Val Ile Leu Met Tyr Met Lys His Leu
 195 200 205
 Gly Val Lys Val Lys Glu Pro Arg Asn Leu Glu His Lys Arg Gly Arg
 210 215 220
 Ile Gly Phe Leu Pro Lys Ile Lys Gln Ser Met
 225 230 235

<210> 986
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

<400> 986
 Ser Pro Gly Thr Gly Arg Gly Pro Gly Pro Thr Ser Phe Val Cys Leu
 1 5 10 15
 Pro Thr Pro Gln Cys Pro Phe Ile Asp Asp Phe Ile Leu Ala Leu His
 20 25 30

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Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile
   35           40           45
Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro
   50           55           60
Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr
   65           70           75           80
Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val
           85           90           95
Val Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro
   100           105           110
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser
   115           120           125
Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala
   130           135           140

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<210> 987

<211> 242

<212>Amino acid

<213> Homo sapiens

```

<400> 987
His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu
   1           5           10           15
Phe Leu Thr Glu Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln
           20           25           30
Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly
   35           40           45
Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys
   50           55           60
Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser
   65           70           75           80
Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala
           85           90           95
Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu
           100           105           110
Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys
   115           120           125
His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val
   130           135           140
Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln
   145           150           155           160
Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys
           165           170           175
Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala
           180           185           190
Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser
           195           200           205
Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg
   210           215           220
Leu His Gly Val Glu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys
   225           230           235           240
Arg Ala
   242

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<210> 988

<211> 154

<212>Amino acid

<213> Homo sapiens

<400> 988

```

Cys Cys Arg Trp Ile Asp Cys Phe Ala Leu Tyr Asp Gln Gln Glu Glu
 1           5           10           15
Leu Val Arg His Ile Glu Lys Val His Ile Asp Gln Arg Lys Gly Glu
          20           25           30
Asp Phe Thr Cys Phe Trp Ala Gly Cys Pro Arg Arg Tyr Lys Pro Phe
          35           40           45
Asn Ala Arg Tyr Lys Leu Leu Ile His Met Arg Val His Ser Gly Glu
          50           55           60
Lys Pro Asn Lys Cys Thr Phe Glu Gly Cys Glu Lys Ala Phe Ser Arg
          65           70           75           80
Leu Glu Asn Leu Lys Ile His Leu Arg Ser His Thr Gly Glu Lys Pro
          85           90           95
Tyr Leu Cys Gln His Pro Gly Cys Gln Lys Ala Phe Ser Asn Ser Ser
          100          105          110
Asp Arg Ala Lys His Gln Arg Thr His Leu Asp Thr Lys Pro Tyr Ala
          115          120          125
Cys Gln Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu
          130          135          140
Arg Lys His Val Lys Ala His Ser Ser Lys
          145          150          154

```

<210> 989

<211> 65

<212>Amino acid

<213> Homo sapiens

<400> 989

```

Leu Pro Leu Leu Trp Thr Leu Ser Asp Phe Gly Gly Thr Met Asp Gln
 1           5           10           15
Ser Gly Met Glu Ile Pro Val Thr Leu Ile Ile Lys Ala Pro Asn Gln
          20           25           30
Lys Tyr Ser Asp Gln Thr Ile Ser Cys Phe Leu Asn Trp Thr Val Gly
          35           40           45
Lys Leu Lys Thr His Leu Ser Asn Val Tyr Pro Ser Lys Pro Val Ser
          50           55           60
Val
65

```

<210> 990

<211> 297

<212>Amino acid

<213> Homo sapiens

<400> 990

```

Ala Gly Thr Arg Met Cys Val Val Ala Ala Ala Glu Glu Leu Val Cys
 1           5           10           15
Gly Ala Arg Gly Leu Trp Met Arg Arg Thr Arg Arg Pro Arg Phe Val
          20           25           30

```

```

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn
  35          40          45
Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr
  50          55          60
Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr
  65          70          75          80
His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu
          85          90          95
Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val
          100          105          110
Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp
          115          120          125
His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp
          130          135          140
Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys
          145          150          155          160
Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe
          165          170          175
Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val
          180          185          190
Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val
          195          200          205
Gly Met His Ser Leu Gly Glu Glu Val Arg Leu His Leu Asn Ala Glu
          210          215          220
Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp
          225          230          235          240
Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu
          245          250          255
Tyr Leu Gly Lys Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala
          260          265          270
Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val
          275          280          285
Asp Pro Gly Glu Lys Cys Tyr Ile Ala
          290          295          297

```

<210> 991
 <211> 207
 <212> Amino acid
 <213> Homo sapiens

```

<400> 991
Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp
  1          5          10          15
Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly
          20          25          30
Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala
          35          40          45
Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp
          50          55          60
Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg
          65          70          75          80
Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg
          85          90          95
Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala
          100          105          110
Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr
          115          120          125
Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys
          130          135          140

```

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val
 145 150 155 160
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser
 165 170 175
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg
 180 185 190
 Gly Phe Gln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu
 195 200 205 207

<210> 992
 <211> 184
 <212>Amino acid
 <213> Homo sapiens

<400> 992
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro
 1 5 10 15
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val
 20 25 30
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp
 35 40 45
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val
 50 55 60
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp
 65 70 75 80
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala
 85 90 95
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg
 100 105 110
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu
 115 120 125
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser
 130 135 140
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val
 145 150 155 160
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly
 165 170 175
 Lys Leu Pro Asp Pro Val Lys Glu
 180 184

<210> 993
 <211> 144
 <212>Amino acid
 <213> Homo sapiens

<400> 993
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly
 1 5 10 15
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro
 20 25 30
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly
 35 40 45
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser
 50 55 60

```

Pro Lys Val Ile Ser Thr Pro Pro Pro Pro Ile Phe Pro Ile Ser Lys
 65              70              75              80
Glu Val Gly Pro Ile Pro Ile Lys His Phe Pro Lys His Val Ala Asn
              85              90              95
Leu His Ala Ser Arg Gly Phe Thr Glu Lys Phe Glu Thr Leu Lys Lys
      100              105              110
Phe Tyr Gln Glu Gly Gln Ser Cys Thr Val Asp Leu Gly Ile Thr Ala
      115              120              125
Asn Ser Ser Asn His Pro Asp Asn Arg His Arg Asn Arg Ser Leu Ile
      130              135              140              144

```

<210> 994
 <211> 147
 <212> Amino acid
 <213> Homo sapiens

```

<400> 994
Ser Phe Pro Asp Arg Thr Ala Ser Leu Val Leu Leu Ser Val Pro Val
 1              5              10              15
Gly Gln Ala Gly Met Gln Gln Arg Gly Leu Ala Ile Val Ala Leu Ala
      20              25              30
Val Cys Ala Ala Leu His Ala Ser Pro Ala Ile Leu Pro Ile Ala Ser
      35              40              45
Ser Cys Cys Thr Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu
      50              55              60
Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu
      65              70              75              80
Ala Ala Val Ile Leu His Val Lys Arg Arg Arg Ile Cys Val Ser Pro
      85              90              95
His Asn His Thr Val Lys Gln Trp Met Lys Val Gln Ala Ala Lys Lys
      100              105              110
Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys His His Gly Lys Arg
      115              120              125
Asn Ser Asn Arg Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys
      130              135              140
Thr Pro Tyr
145      147

```

<210> 995
 <211> 245
 <212> Amino acid
 <213> Homo sapiens

```

<400> 995
Phe Glu Gln Pro Gly Asn Pro Gly Asp Pro Arg Val Arg Thr Pro Pro
 1              5              10              15
Pro Trp Gly Pro His Phe Phe Ala Leu Ile Pro Ser Ser Pro Lys Glu
      20              25              30
Val Pro Ala Thr Pro Ser Ser Arg Arg Asp Pro Ile Ala Pro Thr Ala
      35              40              45
Thr Leu Leu Ser Lys Lys Thr Pro Ala Thr Leu Ala Pro Lys Glu Ala
      50              55              60

```

```

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala
65          70          75          80
Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala
85          90          95
Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser
100        105        110
Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys
115        120        125
Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly
130        135        140
Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr
145        150        155        160
Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys
165        170        175
Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys
180        185        190
Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu
195        200        205
Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys
210        215        220
Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys
225        230        235        240
Asn Gly Ser Lys Gly
245

```

```

<210> 996
<211> 25
<212>Amino acid
<213> Homo sapiens

```

```

<400> 996
Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro
1      5      10      15
Val Ile Pro Val Leu Trp Glu Ala Glu
20      25

```

```

<210> 997
<211> 56
<212>Amino acid
<213> Homo sapiens

```

```

<400> 997
Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
1      5      10      15
Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
20      25      30
Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu
35      40      45
Phe Leu Lys Pro Leu Leu Leu Leu
50      55      56

```

```

<210> 998
<211> 198

```


<212>Amino acid
<213> Homo sapiens

<400> 998

```

Trp Met Arg Ala Pro Met Leu Gln Lys Gln Gln Ala Pro Arg Met Asp
 1          5          10          15
Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn
      20          25          30
Asn Gln Glu Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu
      35          40          45
Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys
      50          55          60
Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile
      65          70          75          80
Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu
      85          90          95
Leu Leu Asn Ala Glu Leu Glu Glu Lys Met Met Gln Glu Ala Glu Lys
      100          105          110
Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met
      115          120          125
Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr
      130          135          140
Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu
      145          150          155          160
Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys
      165          170          175
Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu
      180          185          190
Thr Leu Lys Glu Arg Cys
      195          198

```

<210> 999
<211> 79
<212>Amino acid
<213> Homo sapiens

<400> 999

```

Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu
 1          5          10          15
Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu
      20          25          30
Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser
      35          40          45
Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu
      50          55          60
Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val
      65          70          75          79

```

<210> 1000
<211> 206
<212>Amino acid
<213> Homo sapiens

<400> 1000
 Val Thr Thr Thr Thr His Ser Val Gly Arg Gly His Glu Leu Gln Leu
 1 5 10 15
 Leu Asn Glu Glu Leu Arg Asn Ile Glu Leu Glu Cys Gln Asn Ile Met
 20 25 30
 Gln Ala His Arg Leu Gln Lys Val Thr Asp Gln Tyr Gly Asp Ile Trp
 35 40 45
 Thr Leu His Asp Gly Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Met
 50 55 60
 Gln Arg Gly Lys Leu Asp Asp Ile Met Glu His Pro Glu Lys Ser Asp
 65 70 75 80
 Lys Asp Ser Ser Ser Ala Tyr Asn Thr Ala Glu Ser Cys Arg Ser Thr
 85 90 95
 Pro Leu Thr Val Asp Arg Ser Pro Asp Ser Ser Leu Pro Arg Val Ile
 100 105 110
 Asn Leu Thr Asn Lys Lys Asn Leu Arg Ser Thr Met Ala Ala Thr Gln
 115 120 125
 Ser Ser Ser Gly Gln Ser Ser Lys Glu Ser Thr Ser Thr Lys Ala Lys
 130 135 140
 Thr Thr Glu Gln Gly Cys Ser Ala Glu Ser Lys Glu Lys Val Leu Glu
 145 150 155 160
 Gly Ser Lys Leu Pro Asp Gln Glu Lys Ala Val Ser Glu His Ile Pro
 165 170 175
 Tyr Leu Ser Pro Tyr His Ser Ser Ser Tyr Arg Tyr Ala Asn Ile Pro
 180 185 190
 Ala His Ala Arg His Tyr Gln Ser Tyr Met Gln Leu Ile Gln
 195 200 205 206

<210> 1001
 <211> 138
 <212> Amino acid
 <213> Homo sapiens

<400> 1001
 Val Trp Gly Cys Leu Ala Thr Val Ser Thr His Lys Lys Ile Gln Gly
 1 5 10 15
 Leu Pro Phe Gly Asn Cys Leu Pro Val Ser Asp Gly Pro Phe Asn Asn
 20 25 30
 Ser Thr Gly Ile Pro Phe Phe Tyr Met Thr Ala Lys Asp Pro Val Val
 35 40 45
 Ala Asp Leu Met Lys Asn Pro Met Ala Ser Leu Met Leu Pro Glu Ser
 50 55 60
 Glu Gly Glu Phe Cys Arg Lys Asn Ile Val Asp Pro Glu Asp Pro Arg
 65 70 75 80
 Cys Val Gln Leu Thr Leu Thr Gly Gln Met Ile Ala Val Ser Pro Glu
 85 90 95
 Glu Val Glu Phe Ala Lys Gln Ala Met Phe Ser Arg His Pro Gly Met
 100 105 110
 Arg Lys Trp Pro Arg Gln Tyr Glu Trp Phe Phe Met Lys Met Arg Ile
 115 120 125
 Glu His Ile Trp Leu Gln Lys Trp Tyr Gly
 130 135 138

<210> 1002
 <211> 133

<212>Amino acid
<213> Homo sapiens

<400> 1002
Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro
1 5 10 15
Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Gln Lys Leu
20 25 30
Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp
35 40 45
Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu
50 55 60
Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val
65 70 75 80
Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile
85 90 95
Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn
100 105 110
Leu Ala Gly Asn Asn Leu Ile Ala Met Glu Gln Ile Asn Ser Cys Thr
115 120 125
Ala Leu Gln His Leu
130 133

<210> 1003
<211> 276
<212>Amino acid
<213> Homo sapiens

<400> 1003
Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr
1 5 10 15
Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr
20 25 30
Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe
35 40 45
Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His
50 55 60
Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala
65 70 75 80
Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln
85 90 95
Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His
100 105 110
Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile
115 120 125
Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp
130 135 140
Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu
145 150 155 160
Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val
165 170 175
Leu Ser Gln Glu Gly Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala
180 185 190
Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro
195 200 205

Val Leu Lys Thr Ala Leu Pro Glu Gly Leu Gly Pro Tyr Cys Ala Glu
 210 215 220
 Thr His Arg Arg His Thr Leu Phe Cys Gly Thr Leu Ile Leu His Ala
 225 230 235 240
 Arg Ala Tyr Val Gly Pro His Val Leu Ala Val Val Thr Arg Thr Gly
 245 250 255
 Met Ser Arg Glu Ala Gly Leu Glu Arg Asp Pro Gly Ser Ala Pro Leu
 260 265 270
 Lys Arg Trp Ser
 275 276

<210> 1004
 <211> 222
 <212>Amino acid
 <213> Homo sapiens

<400> 1004
 Phe Val Gly Gly Gly Leu His Leu His Leu Cys Leu Leu Leu Cys Phe
 1 5 10 15
 Met Leu Pro Glu Asp Ala Ala Met Ala Val Leu Thr Ala Ser Asn His
 20 25 30
 Val Ser Asn Val Thr Val Asn Tyr Asn Ile Thr Val Glu Arg Met Asn
 35 40 45
 Arg Met Gln Gly Leu Arg Val Ser Thr Val Pro Ala Val Leu Ser Pro
 50 55 60
 Asn Ala Thr Leu Ala Leu Thr Ala Gly Val Leu Val Asp Ser Ala Val
 65 70 75 80
 Glu Val Ala Phe Leu Trp Thr Phe Gly Asp Gly Glu Gln Ala Leu His
 85 90 95
 Gln Phe Gln Pro Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser
 100 105 110
 Val Ala Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala
 115 120 125
 Pro Gly Glu Tyr Val Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn
 130 135 140
 Arg Thr Gln Gln Val Leu Ile Arg Ser Gly Arg Val Pro Ile Val Ser
 145 150 155 160
 Leu Glu Cys Val Ser Cys Lys Ala Gln Ala Val Tyr Glu Val Ser Arg
 165 170 175
 Ser Ser Tyr Val Tyr Leu Glu Gly Arg Cys Leu Asn Cys Ser Ser Gly
 180 185 190
 Ser Lys Arg Gly Arg Trp Ala Ala Arg Thr Phe Ser Asn Lys Thr Leu
 195 200 205
 Val Leu Asp Glu Thr Thr Thr Ser Thr Gly Ser Ala Ser Met
 210 215 220 222

<210> 1005
 <211> 363
 <212>Amino acid
 <213> Homo sapiens

<400> 1005
 Pro Glu Phe Leu Gly Arg Leu Phe Arg Gly Lys Ala Ala Thr Leu His
 1 5 10 15

```

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln
      20      25      30
Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp
      35      40      45
Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn
      50      55      60
Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn
      65      70      75      80
His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr
      85      90      95
Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn
      100      105      110
Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys
      115      120      125
Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn
      130      135      140
Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro
      145      150      155      160
Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro
      165      170      175
Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu
      180      185      190
Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp
      195      200      205
Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu
      210      215      220
Thr Asp Lys Glu Lys Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys
      225      230      235      240
Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met
      245      250      255
His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile
      260      265      270
Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro
      275      280      285
Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val
      290      295      300
Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Lys Arg Arg Ala Pro
      305      310      315      320
Ala Pro Pro Pro Pro Gln Pro Pro Pro Pro Ser Pro Leu Ile Pro Asn
      325      330      335
Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys
      340      345      350
Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe
      355      360      363

```

<210> 1006

<211> 95

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(95)

<223> X = any amino acid or stop code

<400> 1006

```

Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe
  1          5          10          15
Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

```

```

      20      25      30
Ala Pro Pro Leu Pro Ala Pro Phe Phe Phe Tyr Phe Leu Phe Leu Val
      35      40      45
Glu Leu Gly Phe His His Ile Gly Xaa Ala Gly Leu Glu Leu Thr Ser
      50      55      60
Thr Asp Leu Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Met
      65      70      75      80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu
      85      90      95

```

<210> 1007
 <211> 151
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1007
Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu
  1      5      10      15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr
      20      25      30
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu
      35      40      45
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu
      50      55      60
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg
      65      70      75      80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Phe Leu Tyr Pro Gln Thr
      85      90      95
Gln Val Leu Val Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn
      100      105      110
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu
      115      120      125
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu
      130      135      140
Gly Val Thr Gln Phe Ser Pro
      145      150 151

```

<210> 1008
 <211> 64
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(64)
 <223> X = any amino acid or stop code

```

      <400> 1008
Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu
  1      5      10      15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr
      20      25      30
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile
      35      40      45

```

Pro Ser Ser Trp Thr Gly Arg Ile Asn Thr Val Lys Met Thr Ile Leu
 50 55 60 64

<210> 1009
 <211> 60
 <212>Amino acid
 <213> Homo sapiens

<400> 1009
 Val Pro His Pro Leu Gln Ala Ile His Glu Gln Met Asn Cys Lys Glu
 1 5 10 15
 Tyr Gln Glu Asp Leu Ala Leu Arg Ala Gln Asn Asp Ala Ala Arg
 20 25 30
 Arg Pro Ser Glu Met Phe Lys Val Arg Leu Ala Gln Gly Arg Gly Leu
 35 40 45
 Ala Ser Leu Ser Ser Gly Ile Gln Ser Gly Val Gly
 50 55 60

<210> 1010
 <211> 44
 <212>Amino acid
 <213> Homo sapiens

<400> 1010
 Arg Trp Asn Ser Leu Thr Cys Val Val Leu Thr Phe Leu Gly His Arg
 1 5 10 15
 Leu Leu Lys Arg Phe Leu Val Pro Lys Leu Arg Arg Phe Leu Lys Pro
 20 25 30
 Gln Gly His Pro Arg Leu Leu Leu Trp Phe Lys Arg
 35 40 44

<210> 1011
 <211> 219
 <212>Amino acid
 <213> Homo sapiens

<400> 1011
 Tyr Gly Glu Phe Val Thr Tyr Gln Gly Val Ala Val Thr Arg Ser Arg
 1 5 10 15
 Lys Glu Gly Ile Ala His Asn Tyr Lys Asn Glu Thr Glu Trp Arg Ala
 20 25 30
 Asn Ile Asp Thr Val Met Ala Trp Phe Thr Glu Glu Asp Leu Asp Leu
 35 40 45
 Val Thr Leu Tyr Phe Gly Glu Pro Asp Ser Thr Gly His Arg Tyr Gly
 50 55 60
 Pro Glu Ser Pro Glu Arg Arg Glu Met Val Arg Gln Val Asp Arg Thr
 65 70 75 80

```

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg
      85          90          95
Leu Asn Leu Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys
      100          105          110
Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe
      115          120          125
Arg Asp Ile Glu Phe Glu Leu Leu Asp Tyr Gly Pro Asn Gly Met Leu
      130          135          140
Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp
145          150          155          160
Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala
      165          170          175
Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser
      180          185          190
Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro
      195          200          205
Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser
      210          215          219

```

<210> 1012
 <211> 89
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1012
Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly
 1          5          10          15
Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly
      20          25          30
Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu
      35          40          45
Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly
      50          55          60
Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys
      65          70          75          80
Pro Ser Ser Ser Leu Glu Thr Phe Phe
      85          89

```

<210> 1013
 <211> 82
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1013
Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln
 1          5          10          15
Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Leu Gly Trp Lys Leu Ser
      20          25          30
His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe
      35          40          45
Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu
      50          55          60
Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser
      65          70          75          80

```


Trp Asp
82

<210> 1014
<211> 107
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> X = any amino acid or stop code

<400> 1014
Tyr Cys Phe Cys Phe Asp Leu Leu His Xaa Cys Ile His Arg Asp Val
1 5 10 15
Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys
20 25 30
Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr
35 40 45
Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Pro Val Gly
50 55 60
Asp Thr Gln Tyr Gly Pro Pro Val Asp Val Trp Ala Ile Gly Cys Val
65 70 75 80
Ser Ala Glu Leu Leu Ser Gly Lys Cys Leu Trp Trp Pro Gly Lys Ser
85 90 95
Asp Met Leu Asp Gln Leu Tyr Leu Ile Arg Lys
100 105 107

<210> 1015
<211> 70
<212>Amino acid
<213> Homo sapiens

<400> 1015
Arg Gly Trp Ala Leu Asp Trp Ile Gly Ala Asp Leu Ser Leu His Leu
1 5 10 15
Gln Glu Glu Val Glu Thr Glu Val Ala Trp Glu Glu Cys Gly His Val
20 25 30
Leu Leu Ser Leu Cys Tyr Ser Ser Gln Gln Gly Gly Leu Leu Val Gly
35 40 45
Val Leu Arg Cys Ala His Leu Ala Pro Met Asp Ala Asn Gly Tyr Ser
50 55 60
Asp Pro Phe Val Arg Leu
65 70

<210> 1016
<211> 142
<212>Amino acid
<213> Homo sapiens

<400> 1016
 Gly Gly Ile Leu Ala Met Glu Tyr Ala Pro Gly Gly Thr Leu Ala Glu
 1 5 10 15
 Phe Ile Gln Lys Arg Cys Asn Ser Leu Leu Glu Glu Glu Thr Ile Leu
 20 25 30
 His Phe Phe Val Gln Ile Leu Leu Ala Leu His His Val His Thr His
 35 40 45
 Leu Ile Leu His Arg Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Lys
 50 55 60
 His Arg Met Val Val Lys Ile Gly Asp Phe Gly Ile Ser Lys Ile Leu
 65 70 75 80
 Ser Ser Lys Ser Lys Ala Tyr Thr Val Val Gly Thr Pro Cys Tyr Ile
 85 90 95
 Ser Pro Glu Leu Cys Glu Gly Lys Pro Tyr Asn Gln Lys Ser Asp Ile
 100 105 110
 Trp Ala Leu Gly Cys Val Leu Tyr Glu Leu Ala Ser Leu Lys Arg Ala
 115 120 125
 Phe Glu Ala Ala Asn Leu Pro Ala Leu Val Leu Lys Ile Met
 130 135 140 142

<210> 1017
 <211> 87
 <212>Amino acid
 <213> Homo sapiens

<400> 1017
 Val Gln Cys Gly Gly Ile His Gln Val Ser Gly Ala Val Val Val Ser
 1 5 10 15
 Gly Leu Leu Gln Gly Met Met Gly Leu Leu Gly Ser Pro Gly His Val
 20 25 30
 Phe Pro His Cys Gly Pro Leu Val Leu Ala Pro Ser Leu Val Val Ala
 35 40 45
 Gly Leu Ser Ala His Arg Glu Val Ala Gln Phe Cys Phe Thr His Trp
 50 55 60
 Gly Leu Ala Leu Leu Tyr Val Ser Pro Glu Arg Arg Gly Met Val Pro
 65 70 75 80
 Ser Gly Gly Val Trp Gly Asp
 85 87

<210> 1018
 <211> 160
 <212>Amino acid
 <213> Homo sapiens

<400> 1018
 Pro Arg Met Thr Gly Ser Thr His Ala Ser Ala Pro Ser Tyr Gly Gly
 1 5 10 15
 Ser Cys Arg Asn Asn Leu Phe Tyr Arg Glu Glu Thr Tyr Thr Pro Lys
 20 25 30
 Ala Glu Thr Asp Glu Met Asn Glu Val Glu Thr Ala Pro Ile Pro Glu
 35 40 45
 Glu Asn His Val Trp Leu Gln Pro Arg Val Met Arg Pro Thr Lys Pro

50	55	60																	
Lys	Lys	Thr	Ser	Ala	Val	Asn	Tyr	Met	Thr	Gln	Val	Val	Arg	Cys	Asp				
65	70									75					80				
Thr	Lys	Met	Lys	Asp	Arg	Cys	Ile	Gly	Ser	Thr	Cys	Asn	Arg	Tyr	Gln				
				85						90					95				
Cys	Pro	Ala	Gly	Cys	Leu	Asn	His	Lys	Ala	Lys	Ile	Phe	Gly	Ser	Leu				
		100						105					110						
Phe	Tyr	Glu	Ser	Phe	Ala	Ser	Ile	Cys	Arg	Ala	Ala	Ile	His	Tyr	Gly				
		115					120					125							
Ile	Leu	Asp	Asp	Lys	Gly	Gly	Leu	Val	Asp	Ile	Thr	Arg	Asn	Gly	Lys				
	130					135					140								
Val	Pro	Phe	Phe	Val	Lys	Ser	Glu	Arg	His	Gly	Val	Gln	Ser	Leu	Arg				
145					150					155					160				

<210> 1019
 <211> 174
 <212> Amino acid
 <213> Homo sapiens

<400> 1019																			
Val	Pro	Gln	Asn	Ile	Ile	Cys	Ala	Phe	Phe	Cys	Val	Pro	Cys	Arg	Phe				
1				5					10					15					
Ala	Ser	Thr	Ile	Pro	Phe	Trp	Gly	Leu	Thr	Leu	His	Leu	Gln	His	Leu				
		20					25					30							
Gly	Asn	Asn	Val	Phe	Leu	Leu	Gln	Thr	Leu	Phe	Gly	Ala	Val	Thr	Leu				
		35					40				45								
Leu	Ala	Asn	Cys	Val	Ala	Pro	Trp	Ala	Leu	Asn	His	Met	Ser	Arg	Arg				
		50				55				60									
Leu	Ser	Gln	Met	Leu	Leu	Met	Phe	Leu	Leu	Ala	Thr	Cys	Leu	Leu	Ala				
		65			70					75				80					
Ile	Ile	Phe	Val	Pro	Gln	Glu	Met	Gln	Thr	Leu	Arg	Val	Val	Leu	Ala				
			85					90					95						
Thr	Leu	Gly	Val	Gly	Ala	Ala	Ser	Leu	Gly	Ile	Thr	Cys	Ser	Thr	Ala				
		100					105					110							
Gln	Glu	Asn	Glu	Leu	Ile	Pro	Ser	Ile	Ile	Arg	Gly	Arg	Ala	Thr	Gly				
		115				120				125									
Ile	Thr	Gly	Asn	Phe	Ala	Asn	Ile	Gly	Gly	Ala	Leu	Ala	Ser	Leu	Val				
	130				135					140									
Met	Ile	Leu	Ser	Ile	Tyr	Ser	Arg	Pro	Leu	Pro	Trp	Ile	Ile	Tyr	Gly				
	145				150					155				160					
Val	Phe	Ala	Ile	Leu	Ser	Gly	Leu	Val	Val	Leu	Leu	Leu	Pro						
			165					170					174						

<210> 1020
 <211> 225
 <212> Amino acid
 <213> Homo sapiens

<400> 1020																			
Val	Leu	Val	Ser	Arg	Asp	His	Met	Lys	Ser	Ala	Gln	Gln	Phe	Phe	Gln				
1				5					10					15					
Leu	Val	Gly	Gly	Ser	Ala	Ser	Glu	Cys	Asp	Thr	Ile	Pro	Gly	Arg	Gln				

```

      20      25      30
Cys Met Ala Ser Cys Phe Phe Leu Lys Gln Phe Asp Asp Val Leu
      35      40      45
Ile Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe
      50      55      60
Asn Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu
      65      70      75      80
Gly Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp
      85      90      95
Tyr Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys
      100      105      110
Pro Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu
      115      120      125
Ser Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly
      130      135      140
Gln Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp
      145      150      155      160
Pro Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile
      165      170      175
Phe Gln Met Ile Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu
      180      185      190
Val Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met
      195      200      205
Ile Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu
      210      215      220
Lys
225

```

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<210> 1021
<211> 118
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1021
Leu Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln
 1      5      10      15
Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp
      20      25      30
Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys
      35      40      45
Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val
      50      55      60
Arg Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu
      65      70      75      80
His Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu
      85      90      95
Arg Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg
      100      105      110
Leu Arg Trp Leu Met Pro
      115      118

```

```

<210> 1022
<211> 178
<212>Amino acid
<213> Homo sapiens

```

<400> 1022

Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser
 1 5 10 15
 Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr
 20 25 30
 Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His
 35 40 45
 Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His
 50 55 60
 Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys
 65 70 75 80
 Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly
 85 90 95
 Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile
 100 105 110
 Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn
 115 120 125
 Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser
 130 135 140
 Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala
 145 150 155 160
 Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly
 165 170 175
 Lys Thr
 178

<210> 1023

<211> 146

<212>Amino acid

<213> Homo sapiens

<400> 1023

Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu
 1 5 10 15
 Ala Ser Ala Gly Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val
 20 25 30
 Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu
 35 40 45
 Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln
 50 55 60
 Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu
 65 70 75 80
 Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln
 85 90 95
 Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu
 100 105 110
 Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala
 115 120 125
 Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Asp Ala
 130 135 140
 Lys Lys
 145 146

<210> 1024

<211> 39

<212>Amino acid

<213> Homo sapiens

<400> 1024

```

Ala Met Glu Ile Val His Glu Pro Arg Asp Leu Glu Arg Tyr Met Arg
 1           5           10           15
Glu Ala Val Lys Val Ser Asn Asp Ser Pro Val Leu Leu Asp Arg Phe
           20           25           30
Leu Asn Asp Ala Ile Glu Cys
           35           39

```

<210> 1025

<211> 53

<212>Amino acid

<213> Homo sapiens

<400> 1025

```

Met Leu Ser Pro Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser
 1           5           10           15
Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Val Ala Leu
           20           25           30
Tyr Phe Gly Gln Met Met Leu Glu Gly Tyr Ile Phe Leu Tyr Met Gly
           35           40           45
Arg Glu Gly Phe Lys
           50           53

```

<210> 1026

<211> 365

<212>Amino acid

<213> Homo sapiens

<400> 1026

```

Pro Arg Val Arg Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln
 1           5           10           15
Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val
           20           25           30
Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser
           35           40           45
Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu
           50           55           60
Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp Thr Leu Ser
           65           70           75           80
Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val
           85           90           95
Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile
           100          105          110
Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn
           115          120          125
Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg
           130          135          140
Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly

```

```

145              150              155              160
Ala Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe
165              170              175
Val Val Leu Pro Thr Gly Asp Val Trp Ser Arg Pro Asp Gly Ser Tyr
180              185              190
Leu Asn Lys Leu Leu Ile Thr Arg Ala Arg Gln Asp Asp Ala Gly Met
195              200              205
Tyr Ile Cys Leu Gly Ala Asn Thr Met Gly Tyr Ser Phe Arg Ser Ala
210              215              220
Phe Leu Thr Val Leu Pro Asp Pro Lys Pro Pro Gly Pro Pro Val Ala
225              230              235              240
Ser Ser Ser Ser Ala Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile
245              250              255
Pro Ala Gly Ala Val Phe Ile Leu Gly Thr Leu Leu Leu Trp Leu Cys
260              265              270
Gln Ala Gln Lys Lys Pro Cys Thr Pro Ala Pro Ala Pro Pro Leu Pro
275              280              285
Gly His Arg Pro Pro Gly Thr Ala Arg Asp Arg Ser Gly Asp Lys Asp
290              295              300
Leu Pro Ser Leu Ala Ala Leu Ser Ala Gly Pro Gly Val Gly Leu Cys
305              310              315              320
Glu Glu His Gly Ser Pro Ala Ala Pro Gln His Leu Leu Gly Pro Gly
325              330              335
Pro Val Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr Thr Asp Ile Pro
340              345              350
His His Thr His Thr His Thr Pro His Pro Pro Ala Asn
355              360              365

```

<210> 1027

<211> 30

<212>Amino acid

<213> Homo sapiens

<400> 1027

```

Asn Phe His Phe Thr Gly Lys Cys Leu Phe Met Ser Gly Leu Ser Glu
1              5              10              15
Val Gln Leu Thr His Met Asp Asp His Thr Leu Pro Gly Tyr
20              25              30

```

<210> 1028

<211> 104

<212>Amino acid

<213> Homo sapiens

<400> 1028

```

Ser Pro Arg Lys Arg Lys Thr Arg His Ser Thr Asn Pro Pro Leu Glu
1              5              10              15
Cys His Val Gly Trp Val Met Asp Ser Arg Asp His Gly Pro Gly Thr
20              25              30
Ser Ser Val Ser Thr Ser Asn Ala Ser Pro Ser Glu Gly Ala Pro Leu
35              40              45
Ala Gly Ser Tyr Gly Cys Thr Pro His Ser Phe Pro Lys Phe Gln His
50              55              60
Pro Ser His Glu Leu Leu Lys Glu Asn Gly Phe Thr Gln Gln Val Tyr

```

```

      65              70              75              80
His Lys Tyr Arg Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile
      85              90              95
Gly Gln Ser Gln Glu Met Asn Thr
      100              104

```

```

<210> 1029
<211> 119
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1029
Pro Gly Ser Gly Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln
 1              5              10              15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro
      20              25              30
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp
      35              40              45
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His
      50              55              60
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu
      65              70              75              80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr
      85              90              95
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys
      100              105              110
Gly Leu Tyr His Lys Met Asn
      115              119

```

```

<210> 1030
<211> 171
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(171)
<223> X = any amino acid or stop code

```

```

<400> 1030
Pro Asp His Arg His Gly Ala Leu Trp Trp Trp Tyr Ser Cys Gly Val
 1              5              10              15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val
      20              25              30
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu
      35              40              45
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro
      50              55              60
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys
      65              70              75              80
Leu Ser Ala Ala Pro Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu
      85              90              95
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys
      100              105              110

```



```

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser
      115                      120                      125
Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala
      130                      135                      140
Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys
145                      150                      155                      160
Leu Asn His Lys Gly Leu Ser Arg Ala His Phe
                      165                      170 171

```

```

<210> 1031
<211> 198
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1031
Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly
 1      5                      10                      15
Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr
      20                      25                      30
Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala
      35                      40                      45
Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe
      50                      55                      60
Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu
      65                      70                      75                      80
Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile
      85                      90                      95
Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg
      100                     105                     110
Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala
      115                     120                     125
Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile
      130                     135                     140
Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile
145                     150                     155                     160
Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala
      165                     170                     175
Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln
      180                     185                     190
Leu Arg Thr Leu Asn Ala
      195                     198

```

```

<210> 1032
<211> 138
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 1032
Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

```

```

      1           5           10           15
Met Phe Ser Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu
      20           25           30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu
      35           40           45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln
      50           55           60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val
      65           70           75           80
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys
      85           90           95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro
      100          105          110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp
      115          120          125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *
      130          135          137

```

<210> 1033
 <211> 141
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1033
Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala
      1           5           10           15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val
      20           25           30
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro
      35           40           45
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys
      50           55           60
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met
      65           70           75           80
Met Pro Gly His Gly His Gly His Met Glu His Ser Asn Trp Arg Met
      85           90           95
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr
      100          105          110
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp
      115          120          125
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile
      130          135          140 141

```

<210> 1034
 <211> 112
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1034
Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
      1           5           10           15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
      20           25           30
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu

```

```

      35      40      45
Ala Ala Lys Leu Met Lys Asp Val Ile Ala Glu Pro Tyr Arg Glu Arg
  50      55      60
Leu Leu Pro Gly Phe Arg Gln Ala Arg Gln Ala Val Ala Glu Ile Gly
  65      70      75      80
Ala Val Ala Ser Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
      85      90      95
Cys Asp Lys Pro Glu Thr Ala Gln Arg Val Ala Asp Trp Leu Gly Lys
      100      105      110      112

```

<210> 1035
 <211> 92
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1035
Gly Gln Gln Gln Arg Val Ala Leu Ala Arg Ala Leu Ile Leu Lys Pro
  1      5      10      15
Lys Val Leu Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Asn Leu
      20      25      30
Arg Arg Ser Met Arg Asp Lys Ile Arg Glu Leu Gln Lys Gln Phe Asp
      35      40      45
Ile Thr Ser Leu Tyr Val Thr His Asp Gln Ser Glu Ala Phe Ala Val
      50      55      60
Ser Asp Thr Val Leu Val Met Asn Lys Gly His Ile Met Gln Ile Gly
      65      70      75      80
Ser Pro Gln Asp Leu Arg Val Arg Arg Leu Asn Trp
      85      90      92

```

<210> 1036
 <211> 51
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1036
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys
  1      5      10      15
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala
      20      25      30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr
      35      40      45
Ser Ala Leu
      50      51

```

<210> 1037
 <211> 72
 <212>Amino acid
 <213> Homo sapiens

<400> 1037

```

Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn
 1          5          10          15
Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp
          20          25          30
Ile Phe Ser Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly
          35          40          45
Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu
          50          55          60
Leu Ala Gly Tyr Tyr Glu Gly Trp
65          70          72

```

<210> 1038

<211> 188

<212>Amino acid

<213> Homo sapiens

<400> 1038

```

Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp
 1          5          10          15
Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp
          20          25          30
His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val
          35          40          45
Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met
          50          55          60
Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile
          65          70          75          80
Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile
          85          90          95
Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu
          100          105          110
Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly
          115          120          125
Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr
          130          135          140
Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp
          145          150          155          160
Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys
          165          170          175
Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile
          180          185          188

```

<210> 1039

<211> 122

<212>Amino acid

<213> Homo sapiens

<400> 1039

```

Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg
 1          5          10          15
Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

```

```

      20      25      30
Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly Ala Trp Thr Asp Val
      35      40      45
Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln Thr Asp Val Phe Met
      50      55      60
Thr Gln Arg Ala Thr Gly Val Ala Thr Tyr Arg Asn Asn Asp Phe Phe
      65      70      75      80
Gly Leu Val Asp Gly Leu Asn Phe Ala Ala Gln Tyr Gln Gly Lys Asn
      85      90      95
Asp Arg Ser Asp Phe Asp Asn Tyr Thr Glu Gly Asn Gly His Gly Phe
      100      105      110
Gly Phe Ser Ala Thr Tyr Glu Tyr Glu Gly
      115      120      122

```

<210> 1040
 <211> 65
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1040
Asp Thr Tyr Ser Val Ser Ile Pro Leu Gly Ala Thr Ile Asn Met Ala
  1      5      10      15
Gly Ala Ala Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val Asn Thr
      20      25      30
Leu Gly Ile Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val
      35      40      45
Ala Ser Leu Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu
      50      55      60
Leu
65

```

<210> 1041
 <211> 46
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1041
Ala Asn Ala Gln Gln Gly Leu Pro Ser Gly Ile Thr Leu Lys Leu Asn
  1      5      10      15
Asn Leu Val Asp Lys Gly Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser
      20      25      30
Ser Gly Val Pro Val Asn Leu Leu Val Arg Gly Thr Cys Ser
      35      40      45      46

```

<210> 1042
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

<400> 1042

Ala Arg Met Thr Leu Ile Pro Gly Thr His Leu Leu Glu Asn Ile His
 1 5 10 15
 Asn Ile Trp Val Asn Gly Val Gly Thr Asn Ser Ala Pro Phe Trp Arg
 20 25 30
 Met Leu Leu Asn Ser Phe Val Met Ala Phe Ser Ile Thr Leu Gly Lys
 35 40 45
 Ile Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe
 50 55 60
 Pro Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu
 65 70 75 80
 Pro Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu
 85 90 95
 Gln Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser
 100 105 110
 Ala Thr Ala Thr Phe Leu Phe Arg Lys Leu Asn Met Ser Gly Pro Asp
 115 120 125
 Lys Val Val Pro Ala Ala Arg Ile Ser Gly Tyr Gly Pro Arg Val Arg
 130 135 140
 Lys Gln
 145 146

<210> 1043

<211> 133

<212>Amino acid

<213> Homo sapiens

<400> 1043

Cys Ala Lys Cys Leu Arg Asp Ala Asp Glu Cys Pro Ser Gly Ala Phe
 1 5 10 15
 Glu Arg Ile Gly Arg Asp Ile Ser Leu Asp Ala Leu Glu Arg Glu Val
 20 25 30
 Met Lys Asp Asp Ile Phe Phe Arg Thr Ser Gly Gly Gly Val Thr Leu
 35 40 45
 Ser Gly Gly Glu Val Leu Met Gln Ala Glu Phe Ala Thr Arg Phe Leu
 50 55 60
 Gln Arg Leu Arg Leu Trp Gly Val Ser Cys Ala Ile Glu Thr Ala Gly
 65 70 75 80
 Asp Ala Pro Ala Ser Lys Leu Leu Pro Leu Ala Lys Leu Cys Asp Glu
 85 90 95
 Val Leu Phe Asp Leu Lys Ile Met Asp Ala Thr Gln Ala Arg Asp Val
 100 105 110
 Val Lys Met Asn Leu Pro Arg Val Leu Glu Asn Leu Arg Leu Leu Val
 115 120 125
 Ser Glu Gly Val Asn
 130 133

<210> 1044

<211> 115

<212>Amino acid

<213> Homo sapiens

<400> 1044

Tyr Leu Leu Leu Phe Val Cys Phe Leu Val Met Ser Leu Leu Val Gly

```

      1           5           10           15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp
      20           25           30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu
      35           40           45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn
      50           55           60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp
      65           70           75           80
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp
      85           90           95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu
      100           105           110
Ala Val Gly
      115

```

```

<210> 1045
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1045
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val
      1           5           10           15
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe
      20           25           30
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile
      35           40           45
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile
      50           55           60
Thr Leu Glu Asp Asn
      65           69

```

```

<210> 1046
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1046
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala Gln
      1           5           10           15
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser
      20           25           30
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu
      35           40           45
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val
      50           55           60
Ala Asp Ala Leu Gln
      65           69

```

```

<210> 1047
<211> 43
<212>Amino acid

```

<213> Homo sapiens

<400> 1047

```

Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr
 1           5           10           15
Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro
          20          25          30
Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val
      35          40          43

```

<210> 1048

<211> 77

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (77)

<223> X = any amino acid or stop code

<400> 1048

```

Xaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln
 1           5           10           15
Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser
          20          25          30
Ala Leu Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala
          35          40          45
Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu
          50          55          60
Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa *
      65          70          75  76

```

<210> 1049

<211> 79

<212>Amino acid

<213> Homo sapiens

<400> 1049

```

Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val
 1           5           10           15
Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe
          20          25          30
Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp
          35          40          45
Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro
          50          55          60
Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr
      65          70          75          79

```


<210> 1050
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

<400> 1050
 Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp
 1 5 10 15
 Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly
 20 25 30
 Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn
 35 40 45
 Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr
 50 55 60
 Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys
 65 70 75 80
 Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly
 85 90 95
 Pro Arg Ile
 99

<210> 1051
 <211> 114
 <212>Amino acid
 <213> Homo sapiens

<400> 1051
 Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln
 1 5 10 15
 Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro
 20 25 30
 Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp
 35 40 45
 Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val
 50 55 60
 Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala
 65 70 75 80
 Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys
 85 90 95
 Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys
 100 105 110
 Glu Lys
 114

<210> 1052
 <211> 210
 <212>Amino acid
 <213> Homo sapiens

<400> 1052

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly
 1 5 10 15
 Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu
 20 25 30
 Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser
 35 40 45
 Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg
 50 55 60
 Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val
 65 70 75 80
 Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu
 85 90 95
 Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr
 100 105 110
 Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His
 115 120 125
 His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln
 130 135 140
 Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu
 145 150 155 160
 Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val
 165 170 175
 Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala
 180 185 190
 Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg
 195 200 205
 Leu Leu
 210

<210> 1053
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1053
 Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly
 1 5 10 15
 Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu
 20 25 30
 Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser
 35 40 45
 Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu
 50 55 60
 Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser
 65 70 75 80
 His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp
 85 90 95
 Lys Arg Leu Gln
 100

<210> 1054
 <211> 194
 <212> Amino acid
 <213> Homo sapiens

<400> 1054

```

Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Phe Leu Arg Trp Ser Phe
 1           5           10           15
Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu
          20           25           30
Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu
          35           40           45
Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe
          50           55           60
Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu
          65           70           75           80
Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile
          85           90           95
Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Phe Phe Leu Arg Trp
          100          105          110
Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly
          115          120          125
Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe
          130          135          140
Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys
          145          150          155          160
Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser
          165          170          175
Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Gly Ala Glu Thr Val Gln
          180          185          190
Gly Leu
          194

```

<210> 1055

<211> 351

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(351)

<223> X = any amino acid or stop code

<400> 1055

```

Met Gly Asn Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val
 1           5           10           15
Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu
          20           25           30
Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys
          35           40           45
Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys
          50           55           60
Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val
          65           70           75           80
Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu
          85           90           95
Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys
          100          105          110
Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu
          115          120          125
Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala
          130          135          140
Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

```

```

145          150          155          160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
          165          170          175
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
          180          185          190
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
          195          200          205
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
          210          215          220
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe
225          230          235          240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val
          245          250          255
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn
          260          265          270
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly
          275          280          285
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
          290          295          300
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
305          310          315          320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Ile
          325          330          335
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe
          340          345          350 351

```

<210> 1056

<211> 136

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(136)

<223> X = any amino acid or stop code

<400> 1056

```

Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
 1          5          10          15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
          20          25          30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
          35          40          45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
          50          55          60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
65          70          75          80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
          85          90          95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
          100          105          110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
          115          120          125
Leu Thr Thr Ser Thr Ser Thr Phe
130          135 136

```

<210> 1057

<211> 79

<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(79)
<223> X = any amino acid or stop code

<400> 1057

Thr	Phe	His	Ser	Ser	Leu	Glu	Lys	Asn	Ile	Leu	Gln	Pro	Cys	Arg	Xaa
1				5					10					15	
Arg	Arg	Ala	Ile	Cys	Leu	Pro	Leu	Leu	Leu	Xaa	Pro	Ser	Val	Pro	Leu
		20					25						30		
Leu	Ala	Pro	Gln	Tyr	Phe	Ser	Asp	Leu	Arg	Asn	Ser	Ile	Val	Asn	Ser
		35					40					45			
Gln	Pro	Pro	Glu	Lys	Gln	Gln	Ala	Met	His	Leu	Cys	Phe	Glu	Asn	Leu
		50				55					60				
Met	Glu	Gly	Ile	Glu	Arg	Asn	Leu	Leu	Thr	Lys	Asn	Arg	Asp	Arg	
65					70					75				79	

<210> 1058
<211> 458
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(458)
<223> X = any amino acid or stop code

<400> 1058

Gly	Thr	Ser	Gly	Val	Gln	Gln	Glu	Ile	Ser	Arg	Leu	Thr	Asn	Glu	Asn
1				5					10					15	
Leu	Asp	Leu	Lys	Glu	Leu	Val	Glu	Lys	Leu	Glu	Lys	Asn	Glu	Arg	Lys
		20					25					30			
Leu	Lys	Lys	Gln	Leu	Lys	Ile	Tyr	Met	Lys	Lys	Ala	Gln	Asp	Leu	Glu
		35					40					45			
Ala	Ala	Gln	Ala	Leu	Ala	Gln	Ser	Glu	Arg	Lys	Arg	His	Glu	Leu	Asn
		50				55					60				
Arg	Gln	Val	Thr	Val	Gln	Arg	Lys	Glu	Lys	Asp	Phe	Gln	Gly	Met	Leu
65					70				75					80	
Glu	Tyr	His	Lys	Glu	Asp	Glu	Ala	Leu	Leu	Ile	Arg	Asn	Leu	Val	Thr
		85							90					95	
Asp	Leu	Lys	Pro	Gln	Met	Leu	Ser	Gly	Thr	Val	Pro	Cys	Leu	Pro	Ala
		100						105					110		
Tyr	Ile	Leu	Tyr	Met	Cys	Ile	Arg	His	Ala	Asp	Tyr	Thr	Asn	Asp	Asp
		115					120					125			
Leu	Lys	Val	His	Ser	Leu	Leu	Thr	Ser	Thr	Ile	Asn	Gly	Ile	Lys	Lys
		130					135					140			
Val	Leu	Lys	Lys	His	Asn	Asp	Asp	Phe	Glu	Met	Thr	Ser	Phe	Trp	Leu
145				150					155					160	
Ser	Asn	Thr	Cys	Arg	Leu	Leu	His	Cys	Leu	Lys	Gln	Tyr	Ser	Gly	Asp
			165						170					175	
Glu	Gly	Phe	Met	Thr	Gln	Asn	Thr	Ala	Lys	Gln	Asn	Glu	His	Cys	Leu
		180						185						190	

```

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser
      195                200                205
Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln
      210                215                220
Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu
      225                230                235                240
Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala
      245                250                255
Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn
      260                265                270
Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile
      275                280                285
Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu
      290                295                300
Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met
      305                310                315                320
Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Trp Leu Arg Gly Arg
      325                330                335
Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln
      340                345                350
Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu
      355                360                365
Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys
      370                375                380
Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr
      385                390                395                400
Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp
      405                410                415
Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe
      420                425                430
Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala
      435                440                445
Cys Leu Asn Leu Glu Phe Leu Asn Glu Val
      450                455                458

```

<210> 1059

<211> 82

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(82)

<223> X = any amino acid or stop code

<400> 1059

```

His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro
  1          5          10          15
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu
      20          25          30
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp
      35          40          45
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro
      50          55          60
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser
      65          70          75          80
Ser Asn
      82

```

<210> 1060
 <211> 277
 <212>Amino acid
 <213> Homo sapiens

<400> 1060
 Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr
 1 5 10 15
 Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys
 20 25 30
 Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu
 35 40 45
 Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His
 50 55 60
 Lys Lys Asn Lys Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly
 65 70 75 80
 Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln
 85 90 95
 Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala
 100 105 110
 Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala
 115 120 125
 Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His
 130 135 140
 Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr
 145 150 155 160
 Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys
 165 170 175
 Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys
 180 185 190
 Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn
 195 200 205
 Pro Lys Gly Leu Tyr Ala Asp Gly Gly Gly Cys Lys Leu Cys Gly Ser
 210 215 220
 Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg
 225 230 235 240
 Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu
 245 250 255
 Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro
 260 265 270
 Lys Val Val Asn Phe
 275 277

<210> 1061
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(95)
 <223> X = any amino acid or stop code

<400> 1061

```

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val
 1          5          10          15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe
          20          25          30
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
          35          40          45
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn
          50          55          60
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser
          65          70          75          80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly
          85          90          95

```

<210> 1062

<211> 259

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1062

```

Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro
 1          5          10          15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile
          20          25          30
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly
          35          40          45
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro
          50          55          60
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly
          65          70          75          80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn
          85          90          95
Tyr Ile Pro Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met
          100          105          110
Ala Gly Arg Glu Gly Arg Pro Ser Ser Leu Leu Pro Lys Pro Gly Lys
          115          120          125
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala
          130          135          140
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala
          145          150          155          160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser
          165          170          175
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro
          180          185          190
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn
          195          200          205
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys
          210          215          220
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro
          225          230          235          240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile
          245          250          255
Ser Gln Leu
          259

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<210> 1063
 <211> 498
 <212> Amino acid
 <213> Homo sapiens

<400> 1063
 Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu
 1 5 10 15
 His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met
 20 25 30
 Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile
 35 40 45
 Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala
 50 55 60
 Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu
 65 70 75 80
 Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val
 85 90 95
 Phe Ala Leu Tyr Leu Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met
 100 105 110
 Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly
 115 120 125
 Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala
 130 135 140
 Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu
 145 150 155 160
 Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr
 165 170 175
 Asn Val Glu Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met
 180 185 190
 Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu
 195 200 205
 Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His
 210 215 220
 Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu
 225 230 235 240
 Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro
 245 250 255
 Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala
 260 265 270
 Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser
 275 280 285
 Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr
 290 295 300
 Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln
 305 310 315 320
 Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp
 325 330 335
 Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro
 340 345 350
 Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser
 355 360 365
 Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met
 370 375 380
 Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser
 385 390 395 400
 Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly
 405 410 415
 Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

420 425 430
 Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe
 435 440 445
 Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys
 450 455 460
 Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val
 465 470 475 480
 Gly Pro Arg Gly Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser
 485 490 495
 Gly Arg
 498

<210> 1064
 <211> 374
 <212> Amino acid
 <213> Homo sapiens

<400> 1064
 Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro
 1 5 10 15
 Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser
 20 25 30
 Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly
 35 40 45
 Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu
 50 55 60
 Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser
 65 70 75 80
 Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile
 85 90 95
 Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr
 100 105 110
 Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala
 115 120 125
 Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr
 130 135 140
 Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp
 145 150 155 160
 Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp
 165 170 175
 Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu
 180 185 190
 Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val
 195 200 205
 Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile
 210 215 220
 Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val
 225 230 235 240
 Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr
 245 250 255
 Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys
 260 265 270
 Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu
 275 280 285
 Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys
 290 295 300
 Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser
 305 310 315 320
 Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys

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          325          330          335
Ala Ile His Glu Val Phe Glu Val Arg Met Lys Val Val Lys Ser Arg
          340          345          350
Lys Val Gln Asn Arg Leu Gln Lys Lys Lys Arg Ala Thr Pro Asn Gly
          355          360          365
Thr Pro Arg Val Leu Leu
          370          374

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<210> 1065
<211> 278
<212>Amino acid
<213> Homo sapiens

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<400> 1065
Arg Thr Arg Gly Arg Asp Pro Gly Ala Gly Phe Arg Arg Thr Ala Asn
 1          5          10          15
Lys Arg Cys Cys Arg Arg Arg Phe Leu Ile Gly Cys Gly Trp Leu Pro
          20          25          30
Leu Arg Ser Asp Trp Pro Leu Val Ser Lys Met Leu Ser Lys Gly Leu
          35          40          45
Lys Arg Lys Arg Glu Glu Glu Glu Glu Lys Glu Pro Leu Ala Val Asp
          50          55          60
Ser Trp Trp Leu Asp Pro Gly His Ala Ala Val Ala Gln Ala Pro Pro
          65          70          75          80
Ala Val Ala Ser Ser Ser Leu Phe Asp Leu Ser Val Leu Lys Leu His
          85          90          95
His Ser Leu Gln Ser Glu Pro Asp Leu Arg His Leu Val Leu Val
          100          105          110
Val Asn Thr Leu Arg Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Ala
          115          120          125
Leu Pro Pro Val Pro Ser Pro Pro Ala Ala Pro Ser Val Ala Asp Asn
          130          135          140
Leu Leu Ala Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu
          145          150          155          160
Leu Glu Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro
          165          170          175
Leu Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro
          180          185          190
Ser Leu Gly Ala Leu Asp Leu Leu Gly Pro Ala Thr Gly Cys Leu Leu
          195          200          205
Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser Met Tyr
          210          215          220
Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys Pro Gly Pro
          225          230          235          240
Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu Asp Glu Ala Glu
          245          250          255
Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr Gln Ala Leu Glu Arg
          260          265          270
Pro Pro Gly Pro Gly Arg
          275          278

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<210> 1066
<211> 502
<212>Amino acid
<213> Homo sapiens

```

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<220>
<221> misc_feature

```

<222> (1)...(502)

<223> X = any amino acid or stop code

<400> 1066

```

Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp
 1           5           10           15
His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys
          20           25           30
Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala
          35           40           45
Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln
 50           55           60
Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu
 65           70           75           80
Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His
          85           90           95
Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly
          100          105          110
Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys
          115          120          125
Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu
          130          135          140
Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg
145          150          155          160
Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys
          165          170          175
Thr His Leu Leu Gln Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg
          180          185          190
Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala
          195          200          205
Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala
          210          215          220
Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu
225          230          235          240
Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly
          245          250          255
Leu Leu Arg Glu Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile
          260          265          270
Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu
          275          280          285
Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn
          290          295          300
Ser Lys Leu Lys Gln Ile Glu Lys Glu Tyr Thr Gln Lys Leu Ala Lys
305          310          315          320
Ser Ser Gln Ile Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys
          325          330          335
Glu Glu Asn Ser Gln Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp
          340          345          350
Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn
          355          360          365
Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn
          370          375          380
Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser
385          390          395          400
Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys
          405          410          415
Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser
          420          425          430
Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu
          435          440          445

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Gln Glu Glu Arg Asp Tyr Ile Ser Arg Gln Lys Val Gln Pro Ile Ser
 450 455 460
 Arg Xaa Leu His Glu Arg Met Gln Arg Met Arg Ile Ser Arg Leu Cys
 465 470 475 480
 Cys Gly Thr Ser Ser Ser Arg Phe Glu Asp Leu Asp Ile Val Asn Cys
 485 490 495
 Glu Ile Ser Gly Ile Phe
 500 502

<210> 1067

<211> 301

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(301)

<223> X = any amino acid or stop code

<400> 1067

Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys
 1 5 10 15
 Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe
 20 25 30
 Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr
 35 40 45
 Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp
 50 55 60
 Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser
 65 70 75 80
 Thr Met Leu Lys Leu Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile
 85 90 95
 Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His
 100 105 110
 Val Glu Gln Leu Asp Leu Asn Val Gln Cys Leu Trp Glu Leu Ala Gly
 115 120 125
 His Ala Ser Phe Pro Gly Arg Pro Glu Glu Glu Tyr Arg His Gln Leu
 130 135 140
 Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Ala Met Arg Pro Leu Cys
 145 150 155 160
 Gln Pro Val Leu Gly Ala Arg Lys Lys Pro Lys Trp Pro Phe Ala Gln
 165 170 175
 Met Asp Tyr Cys Pro Ala Pro Thr Phe Tyr Ile Leu Asp Glu Pro Thr
 180 185 190
 Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys Leu
 195 200 205
 Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa Ser
 210 215 220
 Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly Gly
 225 230 235 240
 Gly Val Thr Arg Val Glu Arg Lys Asp Phe Asp Gln Tyr Arg Ala Leu
 245 250 255
 Leu Gln Gly Thr Val Ser Ala Arg Glu Gly Phe Pro Leu Gly Pro Pro
 260 265 270
 Arg Leu Lys Asp Ser Pro Arg Asp Met Gly Leu Val Ser Gln Thr Pro
 275 280 285
 Trp Gly His His Val Gly Tyr Pro Leu Pro Gly Arg Gly
 290 295 300 301

<210> 1068
 <211> 215
 <212> Amino acid
 <213> Homo sapiens

<400> 1068
 Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala
 1 5 10 15
 Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr
 20 25 30
 Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn
 35 40 45
 Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp
 50 55 60
 Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr
 65 70 75 80
 Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp
 85 90 95
 Ser Tyr Glu Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser
 100 105 110
 Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu
 115 120 125
 Gln Ser Val His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg
 130 135 140
 Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala
 145 150 155 160
 Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala
 165 170 175
 Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu
 180 185 190
 Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu
 195 200 205
 Glu Lys Glu Glu Ser Lys Ser
 210 215

<210> 1069
 <211> 274
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(274)
 <223> X = any amino acid or stop code

<400> 1069
 Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala
 1 5 10 15
 Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln
 20 25 30
 Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg
 35 40 45
 Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp
 50 55 60

```

Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu
65      70      75      80
Pro Ser Tyr Ile Ser Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa
      85      90      95
Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys
      100      105      110
Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe
      115      120      125
Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser
      130      135      140
Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly
145      150      155      160
Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val
      165      170      175
Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn
      180      185      190
Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp
      195      200      205
Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val
      210      215      220
Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu
225      230      235      240
Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Glu Asp Val Pro Asp Gln
      245      250      255
Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro
      260      265      270
His Ser
      274

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<210> 1070

<211> 368

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(368)

<223> X = any amino acid or stop code

<400> 1070

```

Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
1      5      10      15
Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
      20      25      30
Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
      35      40      45
Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
      50      55      60
Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
65      70      75      80
Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
      85      90      95
Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
      100      105      110
Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
      115      120      125
Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
130      135      140
Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn

```

```

145              150              155              160
Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser
              165              170              175
Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu
              180              185              190
Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala
              195              200              205
Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala
              210              215              220
Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile
225              230              235              240
Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr
              245              250              255
Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly
              260              265              270
Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Xaa Val Gly Glu Glu Leu
              275              280              285
Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp
290              295              300
Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys
305              310              315              320
Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly
              325              330              335
Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met
              340              345              350
Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Phe Ser Met Leu Gly
              355              360              365              368

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<210> 1071

<211> 81

<212>Amino acid

<213> Homo sapiens

<400> 1071

```

Ala Leu Cys Val Val Pro Phe Asn Thr Phe His Asn Asp Phe Leu Leu
 1              5              10              15
Leu Asp Lys Glu Gly Thr Leu Asp Pro Val Met Asp Ser Phe Ser Thr
              20              25              30
His Trp Thr Thr Ile Gly Pro Ala Asp Met Phe Phe Ser Phe Arg Gln
              35              40              45
His Tyr Lys Asn Phe Lys Ser His Gly Thr Asn Pro Ser Lys Ser Val
50              55              60
Trp Ala His Ala Thr Cys Gln Ser Cys Ala Phe Pro Asn Leu Leu Gly
65              70              75              80
Trp
81

```

<210> 1072

<211> 494

<212>Amino acid

<213> Homo sapiens

<400> 1072

Thr	Arg	Leu	Ala	Glu	Phe	Gly	Thr	Arg	Asp	Pro	Cys	Ala	Gln	Ala	Pro
1				5					10					15	
Cys	Glu	Gln	Gln	Cys	Glu	Pro	Gly	Gly	Pro	Gln	Gly	Tyr	Ser	Cys	His
		20						25					30		
Cys	Arg	Leu	Gly	Phe	Arg	Pro	Ala	Glu	Asp	Asp	Pro	His	Arg	Cys	Val
	35					40					45				
Asp	Thr	Asp	Glu	Cys	Gln	Ile	Ala	Gly	Val	Cys	Gln	Gln	Met	Cys	Val
	50					55					60				
Asn	Tyr	Val	Gly	Gly	Phe	Glu	Cys	Tyr	Cys	Ser	Glu	Gly	His	Glu	Leu
	65				70					75					80
Glu	Ala	Asp	Gly	Ile	Ser	Cys	Ser	Pro	Ala	Gly	Ala	Met	Gly	Ala	Gln
				85					90					95	
Ala	Ser	Gln	Asp	Leu	Gly	Asp	Glu	Leu	Leu	Asp	Asp	Gly	Glu	Asp	Glu
			100					105					110		
Glu	Asp	Glu	Asp	Glu	Ala	Trp	Lys	Ala	Phe	Asn	Gly	Gly	Trp	Thr	Glu
	115						120					125			
Met	Pro	Gly	Ile	Leu	Trp	Met	Glu	Pro	Thr	Gln	Pro	Pro	Asp	Phe	Ala
	130					135					140				
Leu	Ala	Tyr	Arg	Pro	Ser	Phe	Pro	Glu	Asp	Arg	Glu	Pro	Gln	Ile	Pro
	145				150					155					160
Tyr	Pro	Glu	Pro	Thr	Trp	Pro	Pro	Pro	Leu	Ser	Ala	Pro	Arg	Val	Pro
			165						170					175	
Tyr	His	Ser	Ser	Val	Leu	Ser	Val	Thr	Arg	Pro	Val	Val	Val	Ser	Ala
			180					185					190		
Thr	His	Pro	Thr	Leu	Pro	Ser	Ala	His	Gln	Pro	Pro	Val	Ile	Pro	Ala
	195						200					205			
Thr	His	Pro	Ala	Leu	Ser	Arg	Asp	His	Gln	Ile	Pro	Val	Ile	Ala	Ala
	210					215					220				
Asn	Tyr	Pro	Asp	Leu	Pro	Ser	Ala	Tyr	Gln	Pro	Gly	Ile	Leu	Ser	Val
	225				230					235					240
Ser	His	Ser	Ala	Gln	Pro	Pro	Ala	His	Gln	Pro	Pro	Met	Ile	Ser	Thr
			245						250				255		
Lys	Tyr	Pro	Glu	Leu	Phe	Pro	Ala	His	Gln	Ser	Pro	Met	Phe	Pro	Asp
		260						265					270		
Thr	Arg	Val	Ala	Gly	Thr	Gln	Thr	Thr	His	Leu	Pro	Gly	Ile	Pro	
	275					280						285			
Pro	Asn	His	Ala	Pro	Leu	Val	Thr	Thr	Leu	Gly	Ala	Gln	Leu	Pro	Pro
	290					295					300				
Gln	Ala	Pro	Asp	Ala	Leu	Val	Leu	Arg	Thr	Gln	Ala	Thr	Gln	Leu	Pro
	305				310					315					320
Ile	Ile	Pro	Thr	Ala	Gln	Pro	Ser	Leu	Thr	Thr	Thr	Ser	Arg	Ser	Pro
			325						330					335	
Val	Ser	Pro	Ala	His	Gln	Ile	Ser	Val	Pro	Ala	Ala	Thr	Gln	Pro	Ala
		340						345					350		
Ala	Leu	Pro	Thr	Leu	Leu	Pro	Ser	Gln	Ser	Pro	Thr	Asn	Gln	Thr	Ser
	355					360						365			
Pro	Ile	Ser	Pro	Thr	His	Pro	His	Ser	Lys	Ala	Pro	Gln	Ile	Pro	Arg
	370				375						380				
Glu	Asp	Gly	Pro	Ser	Pro	Lys	Leu	Ala	Leu	Trp	Leu	Pro	Ser	Pro	Ala
	385				390					395					400
Pro	Thr	Ala	Ala	Pro	Thr	Ala	Leu	Gly	Glu	Ala	Gly	Leu	Ala	Glu	His
			405						410					415	
Ser	Gln	Arg	Asp	Asp	Arg	Trp	Leu	Leu	Val	Ala	Leu	Leu	Val	Pro	Thr
		420						425					430		
Cys	Val	Phe	Leu	Val	Val	Leu	Leu	Ala	Leu	Gly	Ile	Val	Tyr	Cys	Thr
	435						440					445			
Arg	Cys	Gly	Pro	His	Ala	Pro	Asn	Lys	Arg	Ile	Thr	Asp	Cys	Tyr	Arg
	450					455					460				
Trp	Val	Ile	His	Ala	Gly	Ser	Lys	Ser	Pro	Thr	Glu	Pro	Met	Pro	Pro
	465				470					475					480
Arg	Gly	Ser	Leu	Thr	Gly	Val	Gln	Thr	Cys	Arg	Thr	Ser	Val		
			485						490				494		

<210> 1073
 <211> 468
 <212> Amino acid
 <213> Homo sapiens

<400> 1073
 Leu Arg Val Arg Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg
 1 5 10 15
 Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro
 20 25 30
 Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln
 35 40 45
 Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu
 50 55 60
 Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu
 65 70 75 80
 Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala
 85 90 95
 Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala
 100 105 110
 His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly
 115 120 125
 Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val
 130 135 140
 Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp
 145 150 155 160
 Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu
 165 170 175
 Phe Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp
 180 185 190
 Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu
 195 200 205
 His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp
 210 215 220
 Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr
 225 230 235 240
 Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val
 245 250 255
 Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln
 260 265 270
 Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg
 275 280 285
 Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met
 290 295 300
 Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp
 305 310 315 320
 Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro
 325 330 335
 Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp
 340 345 350
 Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys
 355 360 365
 Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro
 370 375 380
 Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala
 385 390 395 400
 Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met
 405 410 415
 Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met

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          420          425          430
Cys Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile
          435          440          445
Val Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys
          450          455          460
Thr Tyr Thr Val
465          468

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<210> 1074
<211> 288
<212>Amino acid
<213> Homo sapiens

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<400> 1074
Val Val Glu Phe Ala Phe Gln Leu Ser Ser Val Ser Val Cys Leu Thr
  1          5          10          15
Val Ser Phe Gly Trp Gln Leu Gly Thr Val Ser Ser Cys Leu Ser Arg
          20          25          30
Asp Trp Phe Leu Lys Gly Asn Leu Ile Ile Ile Val Ser Val Leu
          35          40          45
Ile Ile Leu Pro Leu Ala Leu Met Lys His Leu Gly Tyr Leu Gly Tyr
          50          55          60
Thr Ser Gly Leu Ser Leu Thr Cys Met Leu Phe Phe Leu Val Ser Val
          65          70          75          80
Ile Tyr Lys Lys Phe Gln Leu Gly Cys Ala Ile Gly His Asn Glu Thr
          85          90          95
Ala Met Glu Ser Glu Ala Leu Val Gly Leu Pro Ser Gln Gly Leu Asn
          100          105          110
Ser Ser Cys Glu Ala Gln Met Phe Thr Val Asp Ser Gln Met Ser Tyr
          115          120          125
Thr Val Pro Ile Met Ala Phe Ala Phe Val Cys His Pro Glu Val Leu
          130          135          140
Pro Ile Tyr Thr Glu Leu Cys Arg Pro Ser Lys Arg Arg Met Gln Ala
          145          150          155          160
Val Ala Asn Val Ser Ile Gly Ala Met Phe Cys Met Tyr Gly Leu Thr
          165          170          175
Ala Thr Phe Gly Tyr Leu Thr Phe Tyr Ser Ser Val Lys Ala Glu Met
          180          185          190
Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu
          195          200          205
Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro
          210          215          220
Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser
          225          230          235          240
Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn
          245          250          255
Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile
          260          265          270
Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Cys Ile
          275          280          285          288

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<210> 1075
<211> 273
<212>Amino acid
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> X = any amino acid or stop code

<400> 1075
 Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser
 1 5 10 15
 Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys
 20 25 30
 Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu
 35 40 45
 Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys
 50 55 60
 Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe
 65 70 75 80
 Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val
 85 90 95
 Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe
 100 105 110
 Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn
 115 120 125
 Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu
 130 135 140
 Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Leu Gly Trp His Cys
 145 150 155 160
 Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile
 165 170 175
 Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe
 180 185 190
 Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg
 195 200 205
 Ile Gln Gln Leu Lys Gln Leu Leu Glu Asp Ser Thr Ser Gly Glu Asp
 210 215 220
 Arg Ser Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys
 225 230 235 240
 Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys
 245 250 255
 Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser
 260 265 270
 Glu
 273

<210> 1076
 <211> 815
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> X = any amino acid or stop code

<400> 1076
 Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1	5	10	15
Leu Pro Gly Ser Gly Ser Val Leu Leu Asp Pro Cys Thr Gly Ser Thr			
20	25	30	
Ile Ser Glu Thr Thr Ser Glu Ala Trp Ser Val Glu Val Leu Pro Ser			
35	40	45	
Asp Ser Glu Ala Pro Asp Leu Lys Gln Glu Glu Arg Leu Gln Glu Leu			
50	55	60	
Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Asp Thr Asp Val Arg			
65	70	75	80
Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly			
85	90	95	
Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg			
100	105	110	
Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro			
115	120	125	
Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys			
130	135	140	
Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu			
145	150	155	160
Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser			
165	170	175	
Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala			
180	185	190	
Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro			
195	200	205	
Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu			
210	215	220	
Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala			
225	230	235	240
Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg			
245	250	255	
Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser			
260	265	270	
Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Glu Leu Pro Pro Ala Ala			
275	280	285	
Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser			
290	295	300	
Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp			
305	310	315	320
Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg			
325	330	335	
Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu			
340	345	350	
Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr			
355	360	365	
Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala			
370	375	380	
Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro			
385	390	395	400
Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp			
405	410	415	
Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile			
420	425	430	
Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln			
435	440	445	
Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Lys Leu Arg Leu Ala			
450	455	460	
Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr			
465	470	475	480
Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val			
485	490	495	
Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys			
500	505	510	
Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe			

515	520	525
Asp Asn Arg Thr Cys Arg Lys Leu Leu Ala Ser Ile Ala Glu Asp Tyr		
530	535	540
Arg Lys Arg Ala Pro Tyr Ile Ala Tyr Leu Thr Arg Cys Arg Gln Gly		
545	550	555
Leu Gln Thr Thr Gln Ala His Leu Glu Arg Leu Leu Gln Arg Val Leu		
565	570	575
Arg Asp Lys Glu Val Ala Asn Arg Tyr Phe Thr Thr Val Cys Val Arg		
580	585	590
Leu Leu Leu Glu Ser Lys Glu Lys Lys Ile Arg Glu Phe Ile Gln Asp		
595	600	605
Phe Gln Lys Leu Thr Ala Ala Asp Asp Lys Thr Ala Gln Val Glu Asp		
610	615	620
Phe Leu Gln Phe Leu Tyr Gly Ala Met Ala Gln Asp Val Ile Trp Gln		
625	630	635
Asn Ala Ser Glu Glu Gln Leu Gln Asp Ala Gln Leu Ala Ile Glu Arg		
645	650	655
Ser Val Met Asn Arg Ile Phe Lys Leu Ala Phe Tyr Pro Asn Gln Asp		
660	665	670
Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu His Ile Gln Arg Leu		
675	680	685
Ser Lys Val Val Thr Ala Asn His Arg Ala Leu Gln Ile Pro Glu Val		
690	695	700
Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile Arg Thr		
705	710	715
Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu Arg		
725	730	735
Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu Ala Asn Glu Asp Ser		
740	745	750
Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile		
755	760	765
Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser		
770	775	780
Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln		
785	790	795
Phe Thr Ala Ala Val Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys		
805	810	815

<210> 1077
 <211> 256
 <212> Amino acid
 <213> Homo sapiens

<400> 1077
 Trp Pro Met Ser Leu Ala Arg Gly His Gly Asp Thr Ala Ala Ser Thr
 1 5 10 15
 Ala Ala Pro Leu Ser Glu Glu Gly Glu Val Thr Ser Gly Leu Gln Ala
 20 25 30
 Leu Ala Val Glu Asp Thr Gly Gly Pro Ser Ala Ser Ala Gly Lys Ala
 35 40 45
 Glu Asp Glu Gly Glu Gly Gly Arg Glu Glu Thr Glu Arg Glu Gly Ser
 50 55 60
 Gly Gly Glu Glu Ala Gln Gly Glu Val Pro Ser Ala Gly Gly Glu Glu
 65 70 75 80
 Pro Ala Glu Glu Asp Ser Glu Asp Trp Cys Val Pro Cys Ser Asp Glu
 85 90 95
 Glu Val Glu Leu Pro Ala Asp Gly Gln Pro Trp Met Pro Pro Pro Ser
 100 105 110
 Glu Ile Gln Arg Leu Tyr Glu Leu Leu Ala Ala His Gly Thr Leu Glu

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      115      120      125
Leu Gln Ala Glu Ile Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln
  130      135      140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu
145      150      155      160
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro
      165      170      175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser
      180      185      190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser
      195      200      205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly
      210      215      220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro
225      230      235      240
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr
      245      250      255 256

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<210> 1078
<211> 590
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(590)
<223> X = any amino acid or stop code

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      <400> 1078
Leu Gly Arg Gly Thr Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
  1      5      10      15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr
      20      25      30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr
      35      40      45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln
      50      55      60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu
      65      70      75      80
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr
      85      90      95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys
      100      105      110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu
      115      120      125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly
      130      135      140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser
145      150      155      160
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu
      165      170      175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu
      180      185      190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr
      195      200      205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly
      210      215      220

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Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro
225                230                235                240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile
                245                250                255
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met
                260                265                270
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val
                275                280                285
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu
290                295                300
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val Gly Ser Leu Asn His
305                310                315                320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His
                325                330                335
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn
340                345                350
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val
355                360                365
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu
370                375                380
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala
385                390                395                400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg
405                410                415
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln
420                425                430
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met
435                440                445
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu
450                455                460
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr
465                470                475                480
Gln Gln Ile Leu Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala
485                490                495
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala
500                505                510
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser
515                520                525
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val
530                535                540
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met
545                550                555                560
Arg Gln Gln Pro Thr Ser Thr Thr Ser Ser Arg Lys Ser Lys Gln His
565                570                575
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg
580                585                590

```

<210> 1079

<211> 904

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(904)

<223> X = any amino acid or stop code

<400> 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15
Pro Asp Glu Asp	Ile Thr Ala Ser Ser	Gln Trp Ser Glu Ser	Thr Ala
20	25	30	
Ala Lys Tyr Gly	Arg Leu Asp Ser	Glu Gly Asp Gly	Ala Trp Cys
35	40	45	
Pro Glu Ile Pro	Val Glu Pro Asp Asp	Leu Lys Glu Phe	Leu Gln Ile
50	55	60	
Asp Leu His Thr	Leu His Phe Ile Thr	Leu Val Gly Thr	Gln Gly Arg
65	70	75	80
His Ala Gly Gly	His Gly Ile Glu Phe	Ala Pro Met Tyr	Lys Ile Asn
85	90	95	
Tyr Ser Arg Asp	Gly Thr Arg Trp Ile	Ser Trp Arg Asn	Arg His Gly
100	105	110	
Lys Gln Val Leu	Asp Gly Asn Ser Asn	Pro Tyr Asp Ile	Phe Leu Lys
115	120	125	
Asp Leu Glu Pro	Pro Ile Val Ala Arg	Phe Val Arg Phe	Ile Pro Val
130	135	140	
Thr Asp His Ser	Met Asn Val Cys Met	Arg Val Glu Leu	Tyr Gly Cys
145	150	155	160
Val Trp Leu Asp	Gly Leu Val Ser Tyr	Asn Ala Pro Ala	Gly Gln Gln
165	170	175	
Phe Val Leu Pro	Gly Gly Ser Ile Ile	Tyr Leu Asn Asp	Ser Val Tyr
180	185	190	
Asp Gly Ala Val	Gly Tyr Ser Met Thr	Glu Gly Leu Gly	Gln Leu Thr
195	200	205	
Asp Gly Val Ser	Gly Leu Asp Asp	Phe Thr Gln Thr	His Glu Tyr His
210	215	220	
Val Trp Pro Gly	Tyr Asp Tyr Val Gly	Trp Arg Asn Glu	Ser Ala Thr
225	230	235	240
Asn Gly Tyr Ile	Glu Ile Met Phe Glu	Phe Asp Arg Ile	Arg Asn Phe
245	250	255	
Thr Thr Met Lys	Val His Cys Asn Asn	Met Phe Ala Lys	Gly Val Lys
260	265	270	
Ile Phe Lys Glu	Val Gln Cys Tyr Phe	Arg Ser Glu Ala	Ser Glu Trp
275	280	285	
Glu Pro Asn Ala	Ile Ser Phe Pro	Leu Val Leu Asp	Asp Val Asn Pro
290	295	300	
Ser Ala Arg Phe	Val Thr Val Pro	Leu His His Arg	Met Ala Ser Ala
305	310	315	320
Ile Lys Cys Gln	Tyr His Phe Ala Asp	Thr Trp Met Met	Phe Ser Glu
325	330	335	
Ile Thr Phe Gln	Ser Asp Ala Ala Met	Tyr Asn Asn Ser	Glu Ala Leu
340	345	350	
Pro Thr Ser Pro	Met Ala Pro Thr	Thr Tyr Asp Pro	Met Leu Lys Val
355	360	365	
Asp Asp Ser Asn	Thr Arg Ile Leu	Ile Gly Cys Leu	Val Ala Ile Ile
370	375	380	
Phe Ile Leu Leu	Ala Ile Val Ile Ile	Leu Trp Arg Gln	Phe Trp
385	390	395	400
Gln Lys Met Leu	Glu Lys Ala Ser Arg	Arg Met Leu Asp	Asp Glu Met
405	410	415	
Thr Val Ser Leu	Ser Leu Pro Ser Asp	Ser Ser Met Phe	Asn Asn Asn
420	425	430	
Arg Ser Ser Ser	Pro Ser Glu Gln	Gly Ser Asn Ser	Thr Tyr Asp Arg
435	440	445	
Ile Phe Pro Leu	Arg Pro Asp Tyr	Gln Glu Pro Ser	Arg Leu Ile Arg
450	455	460	
Lys Leu Pro Glu	Phe Ala Pro Gly	Glu Glu Glu Ser	Gly Cys Ser Gly
465	470	475	480
Val Val Lys Pro	Val Gln Pro Ser Gly	Pro Glu Gly Val	Pro His Tyr
485	490	495	
Ala Glu Ala Asp	Ile Val Asn Leu	Gln Gly Val Thr	Gly Asn Thr
500	505	510	
Tyr Ser Val Pro	Ala Val Thr Met	Asp Leu Leu Ser	Gly Lys Arg Cys

515	520	525
Gly Cys Gly Arg Glu Phe Pro Pro Gly Lys Leu Leu Thr Phe Lys Glu		
530	535	540
Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu Cys Glu Val Glu		
545	550	555
Gly Met Glu Lys Phe Lys Asp Lys Asp Phe Ala Leu Asp Val Ser Ala		
565	570	575
Asn Gln Pro Val Leu Val Ala Val Lys Met Leu Arg Ala Asp Ala Asn		
580	585	590
Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Ile Lys Ile Met Ser Arg		
595	600	605
Leu Lys Asp Pro Asn Ile Ile His Leu Leu Ser Val Cys Ile Thr Asp		
610	615	620
Asp Pro Leu Cys Met Ile Thr Glu Tyr Met Glu Asn Gly Asp Leu Asn		
625	630	635
Gln Phe Leu Ser Arg His Glu Pro Pro Asn Ser Ser Ser Ser Asp Val		
645	650	655
Arg Thr Val Ser Tyr Thr Asn Leu Lys Phe Met Ala Thr Gln Ile Ala		
660	665	670
Ser Gly Met Lys Tyr Leu Ser Ser Leu Asn Phe Val His Arg Asp Leu		
675	680	685
Ala Thr Arg Asn Cys Leu Val Gly Lys Asn Tyr Thr Ile Lys Ile Ala		
690	695	700
Asp Phe Gly Met Ser Arg Asn Leu Tyr Ser Gly Asp Tyr Tyr Arg Ile		
705	710	715
Gln Gly Arg Ala Val Leu Pro Ile Arg Trp Met Ser Trp Glu Ser Ile		
725	730	735
Leu Leu Gly Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val		
740	745	750
Thr Leu Trp Glu Thr Phe Thr Phe Cys Gln Arg Lys Gly Pro Tyr Ser		
755	760	765
Gln Leu Ser Asp Glu Thr Gly Tyr Xaa Arg Asn Thr Gly Glu Phe Phe		
770	775	780
Pro Arg Pro Lys Gly Gly Gln Thr Tyr Leu Pro Ser Thr Ser Pro Phe		
785	790	795
Val Pro Asp Ser Cys Val Ile Lys Leu Met Leu Ser Cys Trp Arg Arg		
805	810	815
Asp Thr Lys Asn Arg Pro Ser Phe Gln Glu Ile His Leu Leu Leu Leu		
820	825	830
Gln Gln Gly Asp Glu Arg Cys Cys Gln Cys Leu Ala Met Phe Leu Arg		
835	840	845
Leu Arg Ser Ser Leu Gln Asp Leu Pro Leu Thr His Ala Tyr Ala Thr		
850	855	860
Pro Ser Gly His Leu Met Lys Leu Arg Asp Arg Gly Leu Phe Ala Leu		
865	870	875
Pro Ser Phe Pro Gly His Pro His Ser Leu Pro Leu Thr His Ile Tyr		
885	890	895
Phe Phe Phe Phe Thr Leu Lys Asn		
900	904	

<210> 1080

<211> 304

<212>Amino acid

<213> Homo sapiens

<400> 1080

Cys Ser Ala Ser Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu
1 5 10 15
Tyr Leu Pro Gly Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly

```
<210> 1081
<211> 139
<212> Amino acid
<213> Homo sapiens
```

600

```
<220>
<221> misc_feature
<222> (1)...(1105)
<223> X = any amino acid or stop code
```

601

```

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys
      355                      360                      365
Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu
      370                      375                      380
Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala
      385                      390                      395                      400
Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser
      405                      410                      415
Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser
      420                      425                      430
Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala
      435                      440                      445
Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr
      450                      455                      460
Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro
      465                      470                      475                      480
Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His
      485                      490                      495
Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His
      500                      505                      510
His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser
      515                      520                      525
Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu
      530                      535                      540
His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu
      545                      550                      555                      560
Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val
      565                      570                      575
Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu
      580                      585                      590
Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly
      595                      600                      605
His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu
      610                      615                      620
Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro
      625                      630                      635                      640
Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro
      645                      650                      655
Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro
      660                      665                      670
Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro
      675                      680                      685
Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu
      690                      695                      700
Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg
      705                      710                      715                      720
Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser
      725                      730                      735
Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys
      740                      745                      750
Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala
      755                      760                      765
Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys
      770                      775                      780
Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu
      785                      790                      795                      800
Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu
      805                      810                      815
Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu
      820                      825                      830
Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val
      835                      840                      845
Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn
      850                      855                      860

```

Ile	Pro	Pro	Ser	Tyr	Arg	Pro	Thr	Pro	Asp	Tyr	Glu	Thr	Val	Met	Lys
		355					360					365			
Gln	Leu	Asn	Arg	Gly	Leu	Val	His	Ala	Glu	Arg	Gln	Ser	His	Ser	Leu
	370					375					380				
Arg	Asn	Leu	Asn	Ile	Gly	Ser	Ser	Tyr	Ala	Tyr	Ser	Arg	Pro	Ala	Ala
385					390					395					400
Leu	Val	Tyr	Ser	Gln	Pro	Glu	Ile	Arg	Glu	His	Ala	Gln	Leu	Pro	Ser
				405					410					415	
Pro	Ala	Ala	Ala	His	Cys	Pro	Phe	Ser	Leu	Ser	Tyr	Ser	Phe	His	Ser
				420				425					430		
Pro	Ser	Pro	Tyr	Pro	Tyr	Pro	Ala	Glu	Arg	Arg	Pro	Val	Val	Gly	Ala
		435					440					445			
Val	Ser	Val	Pro	Glu	Leu	Thr	Asn	Ala	Gln	Leu	Gln	Ala	Gln	Asp	Tyr
	450					455					460				
Pro	Ser	Pro	Asn	Ile	Met	Arg	Thr	Gln	Val	Tyr	Arg	Pro	Pro	Pro	Pro
465					470					475					480
Tyr	Pro	Pro	Pro	Arg	Pro	Ala	Asn	Ser	Thr	Pro	Asp	Leu	Ser	Arg	His
				485					490					495	
Leu	Tyr	Ile	Ser	Ser	Ser	Asn	Pro	Asp	Leu	Ile	Thr	Arg	Arg	Val	His
			500					505					510		
His	Ser	Val	Gln	Thr	Phe	Gln	Glu	Asp	Ser	Leu	Pro	Val	Ala	His	Ser
		515					520					525			
Leu	Gln	Glu	Val	Ser	Glu	Pro	Leu	Thr	Ala	Ala	Arg	His	Ala	Gln	Leu
	530					535					540				
His	Lys	Arg	Asn	Ser	Ile	Glu	Val	Ala	Gly	Leu	Ser	His	Gly	Leu	Glu
545					550					555					560
Gly	Leu	Arg	Leu	Lys	Glu	Arg	Thr	Leu	Ser	Ala	Ser	Ala	Ala	Glu	Val
				565					570					575	
Ala	Pro	Arg	Ala	Val	Ser	Val	Gly	Ser	Gln	Pro	Ser	Val	Phe	Thr	Glu
			580					585					590		
Arg	Thr	Gln	Arg	Glu	Gly	Pro	Glu	Glu	Ala	Glu	Gly	Leu	Arg	Tyr	Gly
		595					600					605			
His	Lys	Lys	Ser	Leu	Ser	Asp	Ala	Thr	Met	Leu	Ile	His	Ser	Ser	Glu
	610					615					620				
Glu	Glu	Glu	Asp	Glu	Asp	Phe	Glu	Glu	Glu	Ser	Gly	Ala	Arg	Ala	Pro
625					630					635					640
Pro	Ala	Arg	Ala	Arg	Glu	Pro	Arg	Pro	Gly	Leu	Ala	Gln	Asp	Pro	Pro
				645					650					655	
Gly	Cys	Pro	Arg	Val	Leu	Leu	Ala	Gly	Pro	Leu	His	Ile	Leu	Glu	Pro
			660					665					670		
Lys	Ala	His	Val	Pro	Asp	Ala	Glu	Lys	Arg	Met	Met	Asp	Ser	Ser	Pro
		675					680					685			
Val	Arg	Thr	Thr	Ala	Glu	Ala	Gln	Arg	Pro	Trp	Arg	Asp	Gly	Leu	Leu
	690					695					700				
Met	Pro	Ser	Met	Ser	Glu	Ser	Asp	Leu	Thr	Thr	Ser	Gly	Arg	Tyr	Arg
705					710					715					720
Ala	Arg	Arg	Asp	Ser	Leu	Lys	Lys	Arg	Pro	Val	Ser	Asp	Leu	Leu	Ser
			725						730					735	
Gly	Lys	Lys	Asn	Ile	Val	Glu	Gly	Leu	Pro	Pro	Leu	Gly	Gly	Met	Lys
			740					745					750		
Lys	Thr	Arg	Val	Asp	Ala	Lys	Lys	Ile	Gly	Pro	Leu	Lys	Leu	Ala	Ala
		755					760					765			
Leu	Asn	Gly	Leu	Ser	Leu	Ser	Arg	Val	Pro	Leu	Pro	Asp	Glu	Gly	Lys
	770					775					780				
Glu	Val	Ala	Thr	Arg	Ala	Thr	Asn	Asp	Glu	Arg	Cys	Lys	Ile	Leu	Glu
785					790					795					800
Gln	Arg	Leu	Glu	Gln	Gly	Met	Val	Phe	Thr	Glu	Tyr	Glu	Arg	Ile	Leu
				805					810					815	
Lys	Lys	Arg	Leu	Val	Asp	Gly	Glu	Cys	Ser	Thr	Ala	Arg	Leu	Pro	Glu
			820					825					830		
Asn	Ala	Glu	Arg	Asn	Arg	Phe	Gln	Asp	Val	Leu	Pro	Tyr	Asp	Asp	Val
	835						840					845			
Arg	Val	Glu	Leu	Val	Pro	Thr	Lys	Glu	Asn	Asn	Thr	Gly	Tyr	Ile	Asn
	850					855					860				

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile
 865 870 875 880
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met
 885 890 895
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu
 900 905 910
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser
 915 920 925
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe
 930 935 940
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His
 945 950 955 960
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp
 965 970 975
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr
 980 985 990
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp
 995 1000 1005
 Pro Gln Ser Pro Asn Pro Pro Leu Leu Val His Cys Ser Ala Gly Val
 1010 1015 1020
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu
 1025 1030 1035 1040
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg
 1045 1050 1055
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val
 1060 1065 1070
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu
 1075 1080 1085
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr
 1090 1095 1100
 Ala
 1105

<210> 1083

<211> 99

<212> Amino acid

<213> Homo sapiens

<220> .

<221> misc_feature

<222> (1)...(99)

<223> X = any amino acid or stop code

<400> 1083

Arg Lys Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu
 1 5 10 15
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu
 20 25 30
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr
 35 40 45
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu
 50 55 60
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro
 65 70 75 80
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp
 85 90 95
 Asp Val Glu
 99

<210> 1084
 <211> 206
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(206)
 <223> X = any amino acid or stop code

<400> 1084
 Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser
 1 5 10 15
 Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His
 20 25 30
 Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe
 35 40 45
 Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val
 50 55 60
 Pro Ser Cys Ala Phe Gly Phe Leu Ser Cys Phe Pro Leu Leu Asn Ser
 65 70 75 80
 Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu
 85 90 95
 Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp
 100 105 110
 Arg Gly Ser Leu Gln Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu
 115 120 125
 Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val
 130 135 140
 Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val
 145 150 155 160
 Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro
 165 170 175
 Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro
 180 185 190
 Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly
 195 200 205 206

<210> 1085
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

<400> 1085
 Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu
 1 5 10 15
 Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg Arg
 20 25 30
 Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln
 35 40 45
 Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile
 50 55 60
 Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile
 65 70 75 80

Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val
 85 90 95
 Ser Ile Ser
 99

<210> 1086
 <211> 53
 <212>Amino acid
 <213> Homo sapiens

<400> 1086
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His
 1 5 10 15
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln
 20 25 30
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp
 35 40 45
 Thr Val Pro Asp Ser
 50 53

<210> 1087
 <211> 250
 <212>Amino acid
 <213> Homo sapiens

<400> 1087
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu
 1 5 10 15
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro
 20 25 30
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly
 35 40 45
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser
 50 55 60
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys
 65 70 75 80
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala
 85 90 95
 Leu Leu Ile Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu
 100 105 110
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys
 115 120 125
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys
 130 135 140
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr
 145 150 155 160
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile
 165 170 175
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg
 180 185 190
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp
 195 200 205
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr
 210 215 220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn
 225 230 235 240
 Lys Arg Trp Gly Pro His Tyr Asn Gly Leu
 245 250

<210> 1088
 <211> 455
 <212> Amino acid
 <213> Homo sapiens

<400> 1088
 Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys
 1 5 10 15
 Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys
 20 25 30
 Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp
 35 40 45
 Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu
 50 55 60
 Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu
 65 70 75 80
 Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly
 85 90 95
 Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr
 100 105 110
 Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu
 115 120 125
 Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Glu Pro Asp Ser Ala Ala
 130 135 140
 Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg
 145 150 155 160
 Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu
 165 170 175
 Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu
 180 185 190
 Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu
 195 200 205
 Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu
 210 215 220
 Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser
 225 230 235 240
 Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val
 245 250 255
 Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser
 260 265 270
 Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly
 275 280 285
 Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe
 290 295 300
 Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala
 305 310 315 320
 Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala
 325 330 335
 Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr
 340 345 350
 Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr
 355 360 365
 His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His
 370 375 380

```

Asn Glu Glu Ser Val Arg Gln Ala Thr Lys Gly Gln Ala Gly Tyr Val
385                      390                      395                      400
Val Tyr Lys Ser Ile Pro Tyr Gly Ser Leu Glu Glu Val Ile Pro Tyr
                      405                      410                      415
Leu Ile Arg Arg Ala Gln Glu Asn Arg Ser Val Leu Gln Gly Ala Arg
                      420                      425                      430
Arg Glu Gln Glu Leu Leu Ser Gln Lys Leu Trp Arg Arg Leu Leu Pro
                      435                      440                      445
Gly Cys Arg Arg Ile Pro His
450                      455

```

<210> 1089

<211> 243

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(243)

<223> X = any amino acid or stop code

<400> 1089

```

Val Val Glu Phe Gly Glu Met Ser Thr Ala Arg Ala Pro Glu Gly Leu
1                      5                      10                      15
Arg Trp Phe Gln Leu Tyr Val His Pro Asp Leu Gln Leu Asn Lys Gln
                      20                      25                      30
Leu Ile Gln Arg Val Glu Ser Leu Gly Phe Lys Ala Leu Val Ile Thr
                      35                      40                      45
Leu Asp Thr Pro Val Cys Gly Asn Arg Arg His Asp Ile Arg Asn Gln
50                      55                      60
Leu Arg Arg Asn Leu Thr Leu Thr Asp Leu Gln Ser Pro Lys Lys Gly
65                      70                      75                      80
Asn Ala Ile Pro Tyr Phe Gln Met Thr Pro Ile Ser Thr Ser Leu Cys
                      85                      90                      95
Trp Asn Asp Leu Ser Trp Phe Gln Ser Ile Thr Arg Leu Pro Ile Ile
100                      105                      110
Leu Lys Gly Ile Leu Thr Lys Glu Asp Ala Glu Leu Ala Val Lys His
115                      120                      125
Asn Val Gln Gly Ile Ile Val Ser Asn His Gly Gly Arg Gln Leu Asp
130                      135                      140
Glu Val Leu Ala Ser Ile Asp Ala Leu Thr Glu Val Gly Ala Ala Glu
145                      150                      155                      160
Xaa Gly Asn Met Lys Tyr Tyr Leu Asp Ala Gly Val Arg Thr Gly Asn
165                      170                      175
Asp Val Gln Lys Ala Leu Ala Leu Gly Ala Lys Cys Ile Phe Leu Gly
180                      185                      190
Arg Pro Ile Leu Trp Gly Leu Ala Cys Lys Gly Glu His Gly Val Lys
195                      200                      205
Glu Val Leu Asn Ile Leu Thr Asn Glu Phe His Thr Ser Met Ala Leu
210                      215                      220
Thr Gly Cys Arg Ser Val Ala Glu Ile Asn Arg Asn Leu Val Gln Phe
225                      230                      235                      240
Ser Arg Leu
243

```

<210> 1090

<211> 90

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(90)

<223> X = any amino acid or stop code

<400> 1090

```

Phe Phe Leu Arg Trp Ser Phe Thr Leu Leu Pro Arg Leu Glu Cys Gln
 1           5           10           15
Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Xaa
          20           25           30
Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Gly Leu Gln Val Pro Thr
          35           40           45
Ser Met Leu Gly Xaa Phe Phe Cys Ile Phe Ser Arg Glu Gly Ile Ser
          50           55           60
Pro Cys Trp Pro Gly Trp Ser Gln Thr Pro Lys Val Ile His Leu Pro
 65           70           75           80
Arg Pro Pro Arg Val Leu Arg Leu Gln Ala
          85           90

```

<210> 1091

<211> 259

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1091

```

Leu Leu Cys Phe Val His Thr Ala Leu Gln Ser Phe Gln Gly Glu Leu
 1           5           10           15
Tyr Glu Pro His Val Val Ile Ala Ile Val Val Phe Leu Val Lys Leu
          20           25           30
Gly Ile Cys Lys Xaa Arg Ala Ser Trp Arg Lys Lys Val Thr Leu Val
          35           40           45
Val Lys Xaa Ser Leu Lys Ile Cys Phe Thr Lys Tyr Gly Ser Cys Tyr
          50           55           60
His Pro Gly Glu Lys Ser Ser Ser Trp Leu Phe Asn Xaa Arg Met Val
 65           70           75           80
Asn Asp Cys Leu Ala Thr Ser Cys Ser Asn Arg Ser Phe Val Ile Gln
          85           90           95
Gln Ile Pro Ser Ser Asn Leu Phe Met Val Val Val Asp Ser Ser Cys
          100          105          110
Leu Cys Glu Ser Val Ala Pro Ile Thr Met Ala Pro Ile Glu Ile Arg
          115          120          125
Tyr Ile Leu Leu Cys Ala Gly Pro Leu Thr Thr Thr Glu Thr Ser Lys
          130          135          140
Gly Tyr Gln Trp Xaa Gly Asn Leu Gly Glu Lys Tyr Xaa Arg Arg Lys
          145          150          155          160
Ile Thr Ser Phe Pro Leu Leu Glu Arg Glu Ser Ser Xaa Glu Ser Cys
          165          170          175
His Cys Gln Ile Leu Thr Ser Glu Met Gln Ser Arg Lys Lys Gln Ser

```

```

      180      185      190
Leu Glu Thr Cys Leu Asn Tyr Ser Gln His Asn Glu Ser Leu Lys Cys
      195      200      205
Glu Arg Leu Lys Ala Gln Lys Ile Arg Arg Arg Pro Glu Ser Cys His
      210      215      220
Gly Phe His Pro Glu Glu Asn Ala Arg Glu Cys Gly Gly Ala Pro Ser
      225      230      235      240
Leu Gln Ala Gln Thr Val Leu Leu Leu Leu Pro Leu Leu Leu Met Leu
      245      250      255
Phe Ser Arg
      259

```

<210> 1092

<211> 117

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(117)

<223> X = any amino acid or stop code

<400> 1092

```

Val Pro Ser Pro Thr His Asp Pro Lys Pro Ala Glu Ala Pro Met Pro
  1           5           10           15
Ala Xaa Pro Ala Pro Pro Gly Pro Ala Ser Pro Gly Gly Ala Leu Glu
      20           25           30
Pro Pro Ala Ala Ala Arg Ala Gly Gly Ser Pro Thr Ala Val Arg Ser
      35           40           45
Ile Leu Thr Lys Glu Arg Arg Pro Glu Gly Gly Tyr Lys Ala Val Trp
      50           55           60
Phe Gly Glu Asp Ile Gly Thr Glu Ala Asp Val Val Val Leu Asn Ala
      65           70           75           80
Pro Thr Leu Asp Val Asp Gly Ala Ser Asp Ser Gly Ser Gly Asp Glu
      85           90           95
Gly Glu Gly Ala Gly Arg Gly Gly Gly Pro Tyr Asp Ala Pro Gly Gly
      100           105           110
Asp Asp Ser Tyr Ile
      115           117

```

<210> 1093

<211> 763

<212>Amino acid

<213> Homo sapiens

<400> 1093

```

Leu Ile Ser Leu Ala Gly Pro Thr Asp Asp Ile Gln Ser Thr Gly Pro
  1           5           10           15
Gln Val His Ala Leu Asn Ile Leu Arg Ala Leu Phe Arg Asp Thr Arg
      20           25           30
Leu Gly Glu Asn Ile Ile Pro Tyr Val Ala Asp Gly Ala Lys Ala Ala
      35           40           45
Ile Leu Gly Phe Thr Ser Pro Val Trp Ala Val Arg Asn Ser Ser Thr
      50           55           60

```

Leu	Leu	Phe	Ser	Ala	Leu	Ile	Thr	Arg	Ile	Phe	Gly	Val	Lys	Arg	Ala
65					70					75					80
Lys	Asp	Glu	His	Ser	Lys	Thr	Asn	Arg	Met	Thr	Gly	Arg	Glu	Phe	Phe
				85					90					95	
Ser	Arg	Phe	Pro	Glu	Leu	Tyr	Pro	Phe	Leu	Leu	Lys	Gln	Leu	Glu	Thr
			100					105					110		
Val	Ala	Asn	Thr	Val	Asp	Ser	Asp	Met	Gly	Glu	Pro	Asn	Arg	His	Pro
		115					120					125			
Ser	Met	Phe	Leu	Leu	Leu	Leu	Val	Leu	Glu	Arg	Leu	Tyr	Ala	Ser	Pro
	130						135				140				
Met	Asp	Gly	Thr	Ser	Ser	Ala	Leu	Ser	Met	Gly	Pro	Phe	Val	Pro	Phe
145					150					155					160
Ile	Met	Arg	Cys	Gly	His	Ser	Pro	Val	Tyr	His	Ser	Arg	Glu	Met	Ala
			165						170					175	
Ala	Arg	Ala	Leu	Val	Pro	Phe	Val	Met	Ile	Asp	His	Ile	Pro	Asn	Thr
			180					185					190		
Ile	Arg	Thr	Leu	Leu	Ser	Thr	Leu	Pro	Ser	Cys	Thr	Asp	Gln	Cys	Phe
	195						200					205			
Arg	Gln	Asn	His	Ile	His	Gly	Thr	Leu	Leu	Gln	Val	Phe	His	Leu	Val
	210					215					220				
Gln	Ala	Tyr	Ser	Asp	Ser	Lys	His	Gly	Thr	Asn	Ser	Asp	Phe	Gln	His
225					230					235					240
Glu	Leu	Thr	Asp	Ile	Thr	Val	Cys	Thr	Lys	Ala	Lys	Leu	Trp	Leu	Ala
			245						250					255	
Lys	Arg	Gln	Asn	Pro	Cys	Leu	Val	Thr	Arg	Ala	Val	Tyr	Ile	Asp	Ile
		260						265					270		
Leu	Phe	Leu	Leu	Thr	Cys	Cys	Leu	Asn	Arg	Ser	Ala	Lys	Asp	Asn	Gln
	275						280					285			
Pro	Val	Leu	Glu	Ser	Leu	Gly	Phe	Trp	Glu	Glu	Val	Arg	Gly	Ile	Ile
	290					295					300				
Ser	Gly	Ser	Glu	Leu	Ile	Thr	Gly	Phe	Pro	Trp	Ala	Phe	Lys	Val	Pro
305					310					315					320
Gly	Leu	Pro	Gln	Tyr	Leu	Gln	Ser	Leu	Thr	Arg	Leu	Ala	Ile	Ala	Ala
			325						330					335	
Val	Trp	Ala	Ala	Ala	Ala	Lys	Ser	Gly	Glu	Arg	Glu	Thr	Asn	Val	Pro
		340						345					350		
Ile	Ser	Phe	Ser	Gln	Leu	Leu	Glu	Ser	Ala	Phe	Pro	Glu	Val	Arg	Ser
	355						360						365		
Leu	Thr	Leu	Glu	Ala	Leu	Leu	Glu	Lys	Phe	Leu	Ala	Ala	Ala	Ser	Gly
	370						375				380				
Leu	Gly	Glu	Lys	Gly	Val	Pro	Pro	Leu	Leu	Cys	Asn	Met	Gly	Glu	Lys
385					390					395					400
Phe	Leu	Leu	Leu	Ala	Met	Lys	Glu	Asn	His	Pro	Glu	Cys	Phe	Cys	Lys
			405						410					415	
Ile	Leu	Lys	Ile	Leu	His	Cys	Met	Asp	Pro	Gly	Glu	Trp	Leu	Pro	Gln
		420						425						430	
Thr	Glu	His	Cys	Val	His	Leu	Thr	Pro	Lys	Glu	Phe	Leu	Ile	Trp	Thr
	435						440						445		
Met	Asp	Ile	Ala	Ser	Asn	Glu	Arg	Ser	Glu	Ile	Gln	Ser	Val	Ala	Leu
	450						455				460				
Arg	Leu	Ala	Ser	Lys	Val	Ile	Ser	His	His	Met	Gln	Thr	Cys	Val	Glu
465					470					475					480
Asn	Arg	Glu	Leu	Ile	Ala	Ala	Glu	Leu	Lys	Gln	Trp	Val	Gln	Leu	Val
			485						490					495	
Ile	Leu	Ser	Cys	Glu	Asp	His	Leu	Pro	Thr	Glu	Ser	Arg	Leu	Ala	Val
		500						505					510		
Val	Glu	Val	Leu	Thr	Ser	Thr	Thr	Pro	Leu	Phe	Leu	Thr	Asn	Pro	His
	515						520						525		
Pro	Ile	Leu	Glu	Leu	Gln	Asp	Thr	Leu	Ala	Leu	Trp	Lys	Cys	Val	Leu
	530						535					540			
Thr	Leu	Leu	Gln	Ser	Glu	Gln	Gln	Ala	Val	Arg	Asp	Ala	Ala	Thr	Glu
545					550					555					560
Thr	Val	Thr	Thr	Ala	Met	Ser	Gln	Glu	Asn	Thr	Cys	Gln	Ser	Thr	Glu
			565						570						575

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu
 580 585 590
 Ala Val Leu Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly
 595 600 605
 Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val
 610 615 620
 Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu
 625 630 635 640
 Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr
 645 650 655
 Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro
 660 665 670
 Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln
 675 680 685
 Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu
 690 695 700
 Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg
 705 710 715 720
 Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly
 725 730 735
 Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg
 740 745 750
 Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys
 755 760 763

<210> 1094
 <211> 413
 <212> Amino acid
 <213> Homo sapiens

<400> 1094
 His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly
 1 5 10 15
 Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly
 20 25 30
 Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp
 35 40 45
 Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr
 50 55 60
 Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu
 65 70 75 80
 Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala
 85 90 95
 Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Gly Phe Gly
 100 105 110
 Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys
 115 120 125
 Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp
 130 135 140
 Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val
 145 150 155 160
 Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala
 165 170 175
 Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu
 180 185 190
 Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu
 195 200 205
 Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro
 210 215 220

```

Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe
225                230                235                240
Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg
                245                250                255
Pro Gln Glu Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly
                260                265                270
Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala
                275                280                285
Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser
                290                295                300
Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp
305                310                315                320
Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr
                325                330                335
Glu Ser Gln Asp Val Pro Trp Glu Glu Leu His Asn Arg Phe Gln Ser
                340                345                350
Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu
                355                360                365
Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser
                370                375                380
Ile Trp Thr Asp Leu Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys
385                390                395                400
Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val
                405                410                413

```

<210> 1095

<211> 344

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(344)

<223> X = any amino acid or stop code

<400> 1095

```

Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His
1          5          10          15
Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile
                20          25          30
Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu
                35          40          45
Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu
                50          55          60
Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn
                65          70          75          80
Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys
                85          90          95
Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile
                100          105          110
Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val
                115          120          125
Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln
                130          135          140
His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa
145          150          155          160
Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr
                165          170          175
Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Phe Met

```



```

      180      185      190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly
      195      200      205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg
      210      215      220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys
      225      230      235      240
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr
      245      250      255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys
      260      265      270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His
      275      280      285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu
      290      295      300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly
      305      310      315      320
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro
      325      330      335
Asn Leu Phe His Cys Thr Lys Ile
      340      344

```

```

<210> 1096
<211> 76
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1096
Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser
      1      5      10      15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala
      20      25      30
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu
      35      40      45
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser
      50      55      60
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro
      65      70      75      76

```

```

<210> 1097
<211> 1462
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1462)
<223> X = any amino acid or stop code

```

```

      <400> 1097
Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
      1      5      10      15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
      20      25      30

```

Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser
 35 40 45
 Gly Lys Ile Pro His Tyr Glu Ser Glu Ile Asp Glu Asn Thr Phe Phe
 50 55 60
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu
 65 70 75 80
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu
 85 90 95
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser
 100 105 110
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser
 115 120 125
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu
 130 135 140
 Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu
 145 150 155 160
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro
 165 170 175
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn
 180 185 190
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu
 195 200 205
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn
 210 215 220
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser
 225 230 235 240
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg
 245 250 255
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp
 260 265 270
 Ser Thr Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe
 275 280 285
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met
 290 295 300
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His
 305 310 315 320
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val
 325 330 335
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His
 340 345 350
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys
 355 360 365
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His
 370 375 380
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys
 385 390 395 400
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His
 405 410 415
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu
 420 425 430
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln
 435 440 445
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly
 450 455 460
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu
 465 470 475 480
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val
 485 490 495
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg
 500 505 510
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr
 515 520 525
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn
 530 535 540

Phe	Pro	Leu	Glu	Ile	Lys	Ser	Leu	Pro	Arg	Glu	Ser	Met	Leu	Thr	Val
545					550					555					560
Lys	Leu	Phe	Gly	Ile	Ala	Cys	Ala	Thr	Asn	Asn	Ala	Asn	Leu	Leu	Ala
				565					570						575
Trp	Thr	Cys	Leu	Pro	Leu	Phe	Pro	Lys	Glu	Lys	Ser	Ile	Leu	Gly	Ser
			580					585						590	
Met	Leu	Phe	Ser	Met	Thr	Leu	Gln	Ser	Glu	Pro	Pro	Val	Glu	Met	Ile
		595					600					605			
Thr	Pro	Gly	Val	Trp	Asp	Val	Ser	Gln	Pro	Ser	Pro	Val	Thr	Leu	Gln
	610					615					620				
Ile	Asp	Phe	Pro	Ala	Thr	Gly	Trp	Glu	Tyr	Met	Lys	Pro	Asp	Ser	Glu
625					630					635					640
Glu	Asn	Arg	Ser	Asn	Leu	Glu	Glu	Pro	Leu	Lys	Glu	Cys	Ile	Lys	His
				645					650						655
Ile	Ala	Arg	Leu	Ser	Gln	Lys	Gln	Thr	Pro	Leu	Leu	Leu	Ser	Glu	Glu
			660					665						670	
Lys	Lys	Arg	Tyr	Leu	Trp	Phe	Tyr	Arg	Phe	Tyr	Cys	Asn	Asn	Glu	Asn
		675					680					685			
Cys	Ser	Leu	Pro	Leu	Val	Leu	Gly	Ser	Ala	Pro	Gly	Trp	Asp	Glu	Arg
		690				695					700				
Thr	Val	Ser	Glu	Met	His	Thr	Ile	Leu	Arg	Arg	Trp	Thr	Phe	Ser	Gln
705					710					715					720
Pro	Leu	Glu	Ala	Leu	Gly	Leu	Leu	Thr	Ser	Ser	Phe	Pro	Asp	Gln	Glu
				725					730						735
Ile	Arg	Lys	Val	Ala	Val	Gln	Gln	Leu	Asp	Asn	Leu	Leu	Asn	Asp	Glu
			740					745						750	
Leu	Leu	Glu	Tyr	Leu	Pro	Gln	Leu	Val	Gln	Ala	Val	Lys	Phe	Glu	Trp
		755					760					765			
Asn	Leu	Glu	Ser	Pro	Leu	Val	Gln	Leu	Leu	Leu	His	Arg	Ser	Leu	Gln
		770				775						780			
Ser	Ile	Gln	Val	Ala	His	Arg	Leu	Tyr	Trp	Leu	Leu	Lys	Asn	Ala	Glu
785					790					795					800
Asn	Glu	Ala	Tyr	Phe	Lys	Ser	Trp	Tyr	Gln	Lys	Leu	Leu	Ala	Ala	Leu
				805					810						815
Gln	Phe	Cys	Ala	Gly	Lys	Ala	Leu	Asn	Asp	Glu	Phe	Ser	Lys	Glu	Gln
			820					825						830	
Lys	Leu	Ile	Lys	Ile	Leu	Gly	Asp	Ile	Gly	Glu	Arg	Val	Lys	Ser	Ala
		835				840						845			
Ser	Asp	His	Gln	Arg	Gln	Glu	Val	Leu	Lys	Lys	Glu	Ile	Gly	Arg	Leu
	850					855					860				
Glu	Glu	Phe	Phe	Gln	Asp	Val	Asn	Thr	Cys	His	Leu	Pro	Leu	Asn	Pro
865					870					875					880
Ala	Leu	Cys	Ile	Lys	Gly	Ile	Asp	His	Asp	Ala	Cys	Ser	Tyr	Phe	Thr
				885					890						895
Ser	Asn	Ala	Leu	Pro	Leu	Lys	Ile	Thr	Phe	Ile	Asn	Ala	Asn	Leu	Met
			900					905						910	
Gly	Lys	Asn	Ile	Ser	Ile	Ile	Phe	Lys	Ala	Gly	Asp	Asp	Leu	Arg	Gln
		915					920					925			
Asp	Met	Leu	Val	Leu	Gln	Leu	Ile	Gln	Val	Met	Asp	Asn	Ile	Trp	Leu
	930					935					940				
Gln	Glu	Gly	Leu	Asp	Met	Gln	Met	Ile	Ile	Tyr	Arg	Cys	Leu	Ser	Thr
945					950					955					960
Gly	Lys	Asp	Gln	Arg	Leu	Val	Gln	Met	Val	Pro	Asp	Ala	Val	Thr	Leu
				965					970						975
Ala	Lys	Ile	His	Arg	His	Ser	Gly	Leu	Ile	Gly	Pro	Leu	Lys	Glu	Asn
			980					985					990		
Thr	Ile	Lys	Lys	Trp	Phe	Ser	Gln	His	Asn	His	Leu	Lys	Ala	Asp	Tyr
		995					1000					1005			
Glu	Lys	Ala	Leu	Arg	Asn	Phe	Phe	Tyr	Ser	Cys	Ala	Gly	Trp	Cys	Val
	1010					1015					1020				
Val	Thr	Phe	Ile	Leu	Gly	Val	Cys	Asp	Arg	His	Asn	Asp	Asn	Ile	Met
1025					1030					1035					1040
Leu	Thr	Lys	Ser	Gly	His	Met	Phe	His	Ile	Asp	Phe	Gly	Lys	Phe	Leu
				1045					1050						1055

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe
 1060 1065 1070
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn
 1075 1080 1085
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn
 1090 1095 1100
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met
 1105 1110 1115 1120
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr
 1125 1130 1135
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser
 1140 1145 1150
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys
 1155 1160 1165
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro
 1170 1175 1180
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser
 1185 1190 1195 1200
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys
 1205 1210 1215
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr
 1220 1225 1230
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln
 1235 1240 1245
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp
 1250 1255 1260
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu
 1265 1270 1275 1280
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn
 1285 1290 1295
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr
 1300 1305 1310
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys
 1315 1320 1325
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr
 1330 1335 1340
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala
 1345 1350 1355 1360
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val
 1365 1370 1375
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr
 1380 1385 1390
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val
 1395 1400 1405
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn
 1410 1415 1420
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu
 1425 1430 1435 1440
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe
 1445 1450 1455
 Met Gln Ser Val Leu His
 1460 1462

<210> 1098

<211> 111

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(111)

<223> X = any amino acid or stop code

<400> 1098

```

Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln
 1           5           10           15
Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Gln
           20           25           30
Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro
           35           40           45
Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg
           50           55           60
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro
           65           70           75           80
Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro
           85           90           95
Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro
           100           105           110 111

```

<210> 1099

<211> 1070

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1070)

<223> X = any amino acid or stop code

<400> 1099

```

Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala
 1           5           10           15
Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln
           20           25           30
Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp
           35           40           45
Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu
           50           55           60
Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe
           65           70           75           80
Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met
           85           90           95
Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala
           100           105           110
Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln
           115           120           125
Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Asp Ile Val Ser Met Asp
           130           135           140
Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Pro Glu Cys Thr Arg
           145           150           155           160
Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Asp Ile
           165           170           175
Ala Phe Phe Ser Leu Leu Leu Phe Leu Thr Ser Phe Phe Phe Ala Met
           180           185           190
Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg
           195           200           205
Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys
           210           215           220

```

Gly Leu Asp Ala Phe Leu Gly Leu Ala Thr Pro Lys Leu Met Val Pro
 225 230 235 240
 Arg Glu Phe Lys Pro Thr Leu Pro Gly Arg Gly Trp Leu Val Ser Pro
 245 250 255
 Phe Gly Ala Asn Pro Trp Trp Trp Ser Val Ala Ala Ala Leu Pro Ala
 260 265 270
 Leu Leu Leu Ser Ile Leu Ile Phe Met Asp Gln Gln Ile Thr Ala Val
 275 280 285
 Ile Leu Asn Arg Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His
 290 295 300
 Leu Asp Leu Phe Trp Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu
 305 310 315 320
 Gly Leu Pro Trp Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met
 325 330 335
 Asp Ser Leu Arg Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro
 340 345 350
 Asn Phe Leu Gly Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val Phe
 355 360 365
 Ile Leu Thr Gly Ala Ser Ile Phe Leu Ala Pro Val Leu Lys Phe Ile
 370 375 380
 Pro Met Pro Val Leu Tyr Gly Ile Phe Leu Tyr Met Gly Val Ala Ala
 385 390 395 400
 Leu Ser Ser Ile Gln Phe Thr Asn Arg Val Lys Leu Leu Leu Met Pro
 405 410 415
 Ala Lys His Gln Pro Asp Leu Leu Leu Leu Arg His Val Pro Leu Thr
 420 425 430
 Arg Val His Leu Phe Thr Ala Ile Ser Phe Ala Cys Leu Gly Leu Leu
 435 440 445
 Trp Ile Ile Lys Ser Thr Pro Ala Ala Ile Ile Phe Pro Leu Met Leu
 450 455 460
 Leu Gly Leu Val Gly Val Arg Lys Ala Leu Glu Arg Val Phe Ser Pro
 465 470 475 480
 Gln Glu Leu Leu Trp Leu Asp Glu Leu Met Pro Glu Glu Glu Arg Ser
 485 490 495
 Ile Pro Glu Lys Gly Leu Glu Pro Glu His Ser Phe Ser Gly Ser Asp
 500 505 510
 Ser Glu Asp Ser Glu Leu Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn
 515 520 525
 Ile Ser Val Asn Xaa Leu Glu Xaa Glu Phe Val Arg Glu Ile Arg Gly
 530 535 540
 Pro Ala Val Pro Arg Leu Thr Ser Ala Glu Asp Arg His Arg His Gly
 545 550 555 560
 Pro His Ala His Ser Pro Glu Leu Gln Arg Thr Gly Arg Asp Tyr Ser
 565 570 575
 Leu Asp Tyr Leu Pro Phe Arg Leu Trp Val Gly Ile Trp Val Ala Thr
 580 585 590
 Phe Cys Leu Val Leu Val Ala Thr Glu Ala Ser Val Leu Val Arg Tyr
 595 600 605
 Phe Thr Arg Phe Thr Glu Glu Gly Phe Cys Ala Leu Ile Ser Leu Ile
 610 615 620
 Phe Ile Tyr Asp Ala Val Gly Lys Met Leu Asn Leu Thr His Thr Tyr
 625 630 635 640
 Pro Ile Gln Lys Pro Gly Ser Ser Ala Tyr Gly Cys Leu Cys Gln Tyr
 645 650 655
 Pro Gly Pro Gly Gly Asn Glu Ser Gln Trp Ile Arg Thr Arg Pro Lys
 660 665 670
 Asp Arg Asp Asp Ile Val Ser Met Asp Leu Gly Leu Ile Asn Ala Ser
 675 680 685
 Leu Leu Pro Pro Pro Glu Cys Thr Arg Gln Gly Gly His Pro Arg Gly
 690 695 700
 Pro Gly Cys His Thr Val Pro Asp Ile Ala Phe Phe Ser Leu Leu Leu
 705 710 715 720
 Phe Leu Thr Ser Phe Phe Phe Ala Met Ala Leu Lys Cys Val Lys Thr
 725 730 735

```

Ser Arg Phe Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser
      740      745      750
Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly
      755      760      765
Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu
      770      775      780
Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp
      785      790      795      800
Trp Ser Val Ala Ala Leu Pro Ala Leu Leu Leu Ser Ile Leu Ile
      805      810      815
Phe Met Asp Gln Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr
      820      825      830
Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala
      835      840      845
Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser
      850      855      860
Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser
      865      870      875      880
Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu
      885      890      895
Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile
      900      905      910
Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly
      915      920      925
Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr
      930      935      940
Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro
      945      950      955      960
Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser
      965      970      975
His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr
      980      985      990
Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val
      995      1000      1005
Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu
      1010      1015      1020
Asp Glu Leu Met Pro Glu Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu
      1025      1030      1035      1040
Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu
      1045      1050      1055
Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn
      1060      1065      1070

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<210> 1100

<211> 875

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(875)

<223> X = any amino acid or stop code

<400> 1100

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Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
  1           5           10           15
Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
      20      25      30
Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

```

620


```

545          550          555          560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly
          565          570          575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe
          580          585          590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg
          595          600          605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe
          610          615          620
Val Lys Ser Leu Lys Gly Gln Val Gln Gly Leu Gly Arg Lys Leu Asp
625          630          635          640
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln
          645          650          655
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala
          660          665          670
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys
          675          680          685
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln
          690          695          700
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro
705          710          715          720
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr
          725          730          735
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro
          740          745          750
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp
          755          760          765
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser
          770          775          780
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His
785          790          795          800
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg
          805          810          815
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu
          820          825          830
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe
          835          840          845
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser
          850          855          860
Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile
865          870          875

```

<210> 1101

<211> 3530

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3530)

<223> X = any amino acid or stop code

<400> 1101

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Arg Thr Arg Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr Ala Phe Glu
1          5          10          15
Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val Arg Leu His
          20          25          30
Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser
          35          40          45

```

Ala	Ser	Pro	Gly	Gly	Val	Asp	Tyr	Ile	Leu	His	Gly	Ser	Thr	Val	Thr	50	55	60
Phe	Gln	His	Gly	Gln	Asn	Leu	Ser	Phe	Ile	Asn	Ile	Ser	Ile	Ile	Asp	65	70	75
Asp	Asn	Glu	Ser	Glu	Phe	Glu	Glu	Pro	Ile	Glu	Ile	Leu	Leu	Thr	Gly	85	90	95
Ala	Thr	Gly	Gly	Ala	Val	Leu	Gly	Arg	His	Leu	Val	Ser	Arg	Ile	Ile	100	105	110
Ile	Ala	Lys	Ser	Asp	Ser	Pro	Phe	Gly	Val	Ile	Arg	Phe	Leu	Asn	Gln	115	120	125
Ser	Lys	Ile	Ser	Ile	Ala	Asn	Pro	Asn	Ser	Thr	Met	Ile	Leu	Ser	Leu	130	135	140
Val	Leu	Glu	Arg	Thr	Gly	Gly	Leu	Leu	Gly	Glu	Ile	Gln	Val	Asn	Trp	145	150	155
Glu	Thr	Val	Gly	Pro	Asn	Ser	Gln	Glu	Ala	Leu	Leu	Pro	Gln	Asn	Arg	165	170	175
Asp	Ile	Ala	Asp	Pro	Val	Ser	Gly	Leu	Phe	Tyr	Phe	Gly	Glu	Gly	Glu	180	185	190
Gly	Gly	Val	Arg	Thr	Ile	Ile	Leu	Thr	Ile	Tyr	Pro	His	Glu	Glu	Ile	195	200	205
Glu	Val	Glu	Glu	Thr	Phe	Ile	Ile	Lys	Leu	His	Leu	Val	Lys	Gly	Glu	210	215	220
Ala	Lys	Leu	Asp	Ser	Arg	Ala	Lys	Asp	Val	Thr	Leu	Thr	Ile	Gln	Glu	225	230	235
Phe	Gly	Asp	Pro	Asn	Gly	Val	Val	Gln	Phe	Ala	Pro	Glu	Thr	Leu	Ser	245	250	255
Lys	Lys	Thr	Tyr	Ser	Glu	Pro	Leu	Ala	Leu	Glu	Gly	Pro	Leu	Leu	Ile	260	265	270
Thr	Phe	Phe	Val	Arg	Arg	Val	Lys	Gly	Thr	Phe	Gly	Glu	Ile	Met	Val	275	280	285
Tyr	Trp	Glu	Leu	Ser	Ser	Glu	Phe	Asp	Ile	Thr	Glu	Asp	Phe	Leu	Ser	290	295	300
Thr	Ser	Gly	Phe	Phe	Thr	Ile	Ala	Asp	Gly	Glu	Ser	Glu	Ala	Ser	Phe	305	310	315
Asp	Val	His	Leu	Leu	Pro	Asp	Glu	Val	Pro	Glu	Ile	Glu	Glu	Asp	Tyr	325	330	335
Val	Ile	Gln	Leu	Val	Ser	Val	Glu	Gly	Gly	Ala	Glu	Leu	Asp	Leu	Glu	340	345	350
Lys	Ser	Ile	Thr	Trp	Phe	Ser	Val	Tyr	Ala	Asn	Asp	Asp	Pro	His	Gly	355	360	365
Val	Phe	Ala	Leu	Tyr	Ser	Asp	Arg	Gln	Ser	Ile	Leu	Ile	Gly	Gln	Asn	370	375	380
Leu	Ile	Arg	Ser	Ile	Gln	Ile	Asn	Ile	Thr	Arg	Leu	Ala	Gly	Thr	Phe	385	390	395
Gly	Asp	Val	Ala	Val	Gly	Leu	Arg	Ile	Ser	Ser	Asp	His	Lys	Glu	Gln	405	410	415
Pro	Ile	Val	Thr	Glu	Asn	Ala	Glu	Arg	Gln	Leu	Val	Val	Lys	Asp	Gly	420	425	430
Ala	Thr	Tyr	Lys	Val	Asp	Val	Val	Pro	Ile	Lys	Asn	Gln	Val	Phe	Leu	435	440	445
Ser	Leu	Gly	Ser	Asn	Phe	Thr	Leu	Gln	Leu	Val	Thr	Val	Met	Leu	Val	450	455	460
Gly	Gly	Arg	Phe	Tyr	Gly	Met	Pro	Thr	Ile	Leu	Gln	Glu	Ala	Lys	Ser	465	470	475
Ala	Val	Leu	Pro	Val	Ser	Glu	Lys	Ala	Ala	Asn	Ser	Gln	Val	Gly	Phe	485	490	495
Glu	Ser	Thr	Ala	Phe	Gln	Leu	Met	Asn	Ile	Thr	Ala	Gly	Thr	Ser	His	500	505	510
Val	Met	Ile	Ser	Arg	Arg	Gly	Thr	Tyr	Gly	Ala	Leu	Ser	Val	Ala	Trp	515	520	525
Thr	Thr	Gly	Tyr	Ala	Pro	Gly	Leu	Glu	Ile	Pro	Glu	Phe	Ile	Val	Val	530	535	540
Gly	Asn	Met	Thr	Pro	Thr	Leu	Gly	Ser	Leu	Ser	Phe	Ser	His	Gly	Glu	545	550	555

Gln Arg Lys Gly Val Phe Leu Trp Thr Phe Pro Ser Pro Gly Trp Pro
 565 570 575
 Glu Ala Phe Val Leu His Leu Ser Gly Val Gln Ser Ser Ala Pro Gly
 580 585 590
 Gly Ala Gln Leu Arg Ser Gly Phe Ile Val Ala Glu Ile Glu Pro Met
 595 600 605
 Gly Val Phe Gln Phe Ser Thr Ser Ser Arg Asn Ile Ile Val Ser Glu
 610 615 620
 Asp Thr Gln Met Ile Arg Leu His Val Gln Arg Leu Phe Gly Phe His
 625 630 635 640
 Ser Asp Leu Ile Lys Val Ser Tyr Gln Thr Thr Ala Gly Ser Ala Lys
 645 650 655
 Pro Leu Glu Asp Phe Glu Pro Val Gln Asn Gly Glu Leu Phe Phe Gln
 660 665 670
 Lys Phe Gln Thr Glu Val Asp Phe Glu Ile Thr Ile Ile Asn Asp Gln
 675 680 685
 Leu Ser Glu Ile Glu Glu Phe Phe Tyr Ile Asn Leu Thr Ser Val Glu
 690 695 700
 Ile Arg Gly Leu Gln Lys Phe Asp Val Asn Trp Ser Pro Arg Leu Asn
 705 710 715 720
 Leu Asp Phe Ser Val Ala Val Ile Thr Ile Leu Asp Asn Asp Asp Leu
 725 730 735
 Ala Gly Met Asp Ile Ser Phe Pro Glu Thr Thr Val Ala Val Ala Val
 740 745 750
 Asp Thr Thr Leu Ile Pro Val Glu Thr Glu Ser Thr Thr Tyr Leu Ser
 755 760 765
 Thr Ser Lys Thr Thr Thr Ile Leu Gln Pro Thr Asn Val Val Ala Ile
 770 775 780
 Val Thr Glu Ala Thr Gly Val Ser Ala Ile Pro Glu Lys Leu Val Thr
 785 790 795 800
 Leu His Gly Thr Pro Ala Val Ser Glu Lys Pro Asp Val Ala Thr Val
 805 810 815
 Thr Ala Asn Val Ser Ile His Gly Thr Phe Ser Leu Gly Pro Ser Ile
 820 825 830
 Val Tyr Ile Glu Glu Glu Met Lys Asn Gly Thr Phe Asn Thr Ala Glu
 835 840 845
 Val Leu Ile Arg Arg Thr Gly Phe Thr Gly Asn Val Ser Ile Thr
 850 855 860
 Val Lys Thr Phe Gly Glu Arg Cys Ala Gln Met Glu Pro Asn Ala Leu
 865 870 875 880
 Pro Phe Arg Gly Ile Tyr Gly Ile Ser Asn Leu Thr Trp Ala Val Glu
 885 890 895
 Glu Glu Asp Phe Glu Glu Gln Thr Leu Thr Leu Ile Phe Leu Asp Gly
 900 905 910
 Glu Arg Glu Arg Lys Val Ser Val Gln Ile Leu Asp Asp Asp Glu Pro
 915 920 925
 Glu Gly Gln Glu Phe Phe Tyr Val Phe Leu Thr Asn Pro Gln Gly Gly
 930 935 940
 Ala Gln Ile Val Glu Gly Lys Asp Asp Thr Gly Phe Ala Ala Phe Ala
 945 950 955 960
 Met Val Ile Ile Thr Gly Ser Asp Leu His Asn Gly Ile Ile Gly Phe
 965 970 975
 Ser Glu Glu Ser Gln Ser Gly Leu Glu Leu Arg Glu Gly Ala Val Met
 980 985 990
 Arg Arg Leu His Leu Ile Val Thr Arg Gln Pro Asn Arg Ala Phe Glu
 995 1000 1005
 Asp Val Lys Val Phe Trp Arg Val Thr Leu Asn Lys Thr Val Val Val
 1010 1015 1020
 Leu Gln Lys Asp Gly Val Asn Leu Met Glu Glu Leu Gln Ser Val Ser
 1025 1030 1035 1040
 Gly Thr Thr Thr Cys Thr Met Gly Gln Thr Lys Cys Phe Ile Ser Ile
 1045 1050 1055
 Glu Leu Lys Pro Glu Lys Val Pro Gln Val Glu Val Tyr Phe Phe Val
 1060 1065 1070

Glu Leu Tyr Glu Ala Thr Ala Gly Ala Ala Ile Asn Asn Ser Ala Arg
 1075 1080 1085
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val
 1090 1095 1100
 Tyr Phe Ser Val Gly Ser Arg Leu Ala Val Ala His Lys Lys Ala Thr
 1105 1110 1115 1120
 Leu Ile Ser Leu Gln Val Ala Arg Asp Ser Gly Thr Gly Leu Met Met
 1125 1130 1135
 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly
 1140 1145 1150
 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr
 1155 1160 1165
 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp
 1170 1175 1180
 Val Ile Leu Thr Pro Glu Thr Gly Ser Leu Asn Ser Phe Pro Lys Arg
 1185 1190 1195 1200
 Phe Gln Ile Val Leu Phe Asp Pro Lys Gly Gly Ala Arg Ile Asp Lys
 1205 1210 1215
 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln
 1220 1225 1230
 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp
 1235 1240 1245
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu
 1250 1255 1260
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile
 1265 1270 1275 1280
 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu
 1285 1290 1295
 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr
 1300 1305 1310
 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser
 1315 1320 1325
 Leu Leu Thr Asn Val Thr Cys Gly Ser Pro Gly Glu Lys Ser Lys Thr
 1330 1335 1340
 Ile Leu Asp Ser Cys Pro Tyr Leu Ser Ile Leu Ala Leu His Trp Tyr
 1345 1350 1355 1360
 Pro Gln Gln Ile Asn Gly His Lys Phe Glu Gly Lys Glu Gly Asp Tyr
 1365 1370 1375
 Ile Arg Ile Pro Glu Arg Leu Leu Asp Val Gln Asp Ala Glu Ile Met
 1380 1385 1390
 Ala Gly Lys Ser Thr Cys Lys Leu Val Gln Phe Thr Glu Tyr Ser Ser
 1395 1400 1405
 Gln Gln Trp Phe Ile Ser Gly Asn Asn Leu Pro Thr Leu Lys Asn Lys
 1410 1415 1420
 Val Leu Ser Leu Ser Val Lys Gly Gln Ser Ser Gln Leu Leu Thr Asn
 1425 1430 1435 1440
 Asp Asn Glu Val Leu Tyr Arg Ile Tyr Ala Ala Glu Pro Arg Ile Ile
 1445 1450 1455
 Pro Gln Thr Ser Leu Cys Leu Leu Trp Asn Gln Ala Ala Ala Ser Trp
 1460 1465 1470
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr
 1475 1480 1485
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg
 1490 1495 1500
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe
 1505 1510 1515 1520
 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys
 1525 1530 1535
 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala
 1540 1545 1550
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser
 1555 1560 1565
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His
 1570 1575 1580

Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn
 1585 1590 1595 1600
 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr
 1605 1610 1615
 Leu Leu Phe Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile
 1620 1625 1630
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln
 1635 1640 1645
 Ile Tyr Gly Leu Ile His Gly Asp Leu Cys Phe Ile Pro Asn Val Tyr
 1650 1655 1660
 Ala Ala Leu Phe Thr Ala Ala Leu Val Pro Leu Thr Cys Leu Val Val
 1665 1670 1675 1680
 Val Phe Val Val Phe Ile His Ala Tyr Gln Val Lys Pro Gln Trp Lys
 1685 1690 1695
 Ala Tyr Asp Asp Val Phe Arg Gly Arg Thr Asn Ala Ala Glu Ile Pro
 1700 1705 1710
 Leu Ile Leu Tyr Leu Phe Ala Leu Ile Ser Val Thr Trp Leu Trp Gly
 1715 1720 1725
 Gly Leu His Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val
 1730 1735 1740
 Ile Phe Asn Ser Leu Gln Leu Leu Tyr Pro Leu Phe Tyr Phe Leu Leu
 1745 1750 1755 1760
 Leu Xaa Asp Gln Ser Ser Ala Ser Pro Gly Gly Val Asp Tyr Ile
 1765 1770 1775
 Leu His Gly Ser Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe
 1780 1785 1790
 Ile Asn Ile Ser Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro
 1795 1800 1805
 Ile Glu Ile Leu Leu Thr Gly Ala Thr Gly Gly Ala Val Leu Gly Arg
 1810 1815 1820
 His Leu Val Ser Arg Ile Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly
 1825 1830 1835 1840
 Val Ile Arg Phe Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn
 1845 1850 1855
 Ser Thr Met Ile Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu
 1860 1865 1870
 Gly Glu Ile Gln Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu
 1875 1880 1885
 Ala Leu Leu Pro Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gly Leu
 1890 1895 1900
 Phe Tyr Phe Gly Glu Gly Glu Gly Gly Val Arg Thr Ile Ile Leu Thr
 1905 1910 1915 1920
 Ile Tyr Pro His Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys
 1925 1930 1935
 Leu His Leu Val Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp
 1940 1945 1950
 Val Thr Leu Thr Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln
 1955 1960 1965
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala
 1970 1975 1980
 Leu Glu Gly Pro Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly
 1985 1990 1995 2000
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp
 2005 2010 2015
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp
 2020 2025 2030
 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val
 2035 2040 2045
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly
 2050 2055 2060
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr
 2065 2070 2075 2080
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile
 2100 2105 2110
 Thr Arg Leu Ala Gly Thr Phe Gly Asp Val Ala Val Gly Leu Arg Ile
 2115 2120 2125
 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg
 2130 2135 2140
 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro
 2145 2150 2155 2160
 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln
 2165 2170 2175
 Leu Val Thr Val Met Leu Val Gly Gly Arg Phe Tyr Gly Met Pro Thr
 2180 2185 2190
 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala
 2195 2200 2205
 Ala Asn Ser Gln Val Gly Phe Glu Ser Thr Ala Phe Gln Leu Met Asn
 2210 2215 2220
 Ile Thr Ala Gly Thr Ser His Val Met Ile Ser Arg Arg Gly Thr Tyr
 2225 2230 2235 2240
 Gly Ala Leu Ser Val Ala Trp Thr Thr Gly Tyr Ala Pro Gly Leu Glu
 2245 2250 2255
 Ile Pro Glu Phe Ile Val Val Gly Asn Met Thr Pro Thr Leu Gly Ser
 2260 2265 2270
 Leu Ser Phe Ser His Gly Glu Gln Arg Lys Gly Val Phe Leu Trp Thr
 2275 2280 2285
 Phe Pro Ser Pro Gly Trp Pro Glu Ala Phe Val Leu His Leu Ser Gly
 2290 2295 2300
 Val Gln Ser Ser Ala Pro Gly Gly Ala Gln Leu Arg Ser Gly Phe Ile
 2305 2310 2315 2320
 Val Ala Glu Ile Glu Pro Met Gly Val Phe Gln Phe Ser Thr Ser Ser
 2325 2330 2335
 Arg Asn Ile Ile Val Ser Glu Asp Thr Gln Met Ile Arg Leu His Val
 2340 2345 2350
 Gln Arg Leu Phe Gly Phe His Ser Asp Leu Ile Lys Val Ser Tyr Gln
 2355 2360 2365
 Thr Thr Ala Gly Ser Ala Lys Pro Leu Glu Asp Phe Glu Pro Val Gln
 2370 2375 2380
 Asn Gly Glu Leu Phe Phe Gln Lys Phe Gln Thr Glu Val Asp Phe Glu
 2385 2390 2395 2400
 Ile Thr Ile Ile Asn Asp Gln Leu Ser Glu Ile Glu Glu Phe Phe Tyr
 2405 2410 2415
 Ile Asn Leu Thr Ser Val Glu Ile Arg Gly Leu Gln Lys Phe Asp Val
 2420 2425 2430
 Asn Trp Ser Pro Arg Leu Asn Leu Asp Phe Ser Val Ala Val Ile Thr
 2435 2440 2445
 Ile Leu Asp Asn Asp Asp Leu Ala Gly Met Asp Ile Ser Phe Pro Glu
 2450 2455 2460
 Thr Thr Val Ala Val Ala Val Asp Thr Thr Leu Ile Pro Val Glu Thr
 2465 2470 2475 2480
 Glu Ser Thr Thr Tyr Leu Ser Thr Ser Lys Thr Thr Thr Ile Leu Gln
 2485 2490 2495
 Pro Thr Asn Val Val Ala Ile Val Thr Glu Ala Thr Gly Val Ser Ala
 2500 2505 2510
 Ile Pro Glu Lys Leu Val Thr Leu His Gly Thr Pro Ala Val Ser Glu
 2515 2520 2525
 Lys Pro Asp Val Ala Thr Val Thr Ala Asn Val Ser Ile His Gly Thr
 2530 2535 2540
 Phe Ser Leu Gly Pro Ser Ile Val Tyr Ile Glu Glu Glu Met Lys Asn
 2545 2550 2555 2560
 Gly Thr Phe Asn Thr Ala Glu Val Leu Ile Arg Arg Thr Gly Gly Phe
 2565 2570 2575
 Thr Gly Asn Val Ser Ile Thr Val Lys Thr Phe Gly Glu Arg Cys Ala
 2580 2585 2590
 Gln Met Glu Pro Asn Ala Leu Pro Phe Arg Gly Ile Tyr Gly Ile Ser
 2595 2600 2605

Asn Leu Thr Trp Ala Val Glu Glu Asp Phe Glu Glu Gln Thr Leu
 2610 2615 2620
 Thr Leu Ile Phe Leu Asp Gly Glu Arg Glu Arg Lys Val Ser Val Gln
 2625 2630 2635 2640
 Ile Leu Asp Asp Asp Glu Pro Glu Gly Gln Glu Phe Phe Tyr Val Phe
 2645 2650 2655
 Leu Thr Asn Pro Gln Gly Gly Ala Gln Ile Val Glu Gly Lys Asp Asp
 2660 2665 2670
 Thr Gly Phe Ala Ala Phe Ala Met Val Ile Ile Thr Gly Ser Asp Leu
 2675 2680 2685
 His Asn Gly Ile Ile Gly Phe Ser Glu Glu Ser Gln Ser Gly Leu Glu
 2690 2695 2700
 Leu Arg Glu Gly Ala Val Met Arg Arg Leu His Leu Ile Val Thr Arg
 2705 2710 2715 2720
 Gln Pro Asn Arg Ala Phe Glu Asp Val Lys Val Phe Trp Arg Val Thr
 2725 2730 2735
 Leu Asn Lys Thr Val Val Val Leu Gln Lys Asp Gly Val Asn Leu Met
 2740 2745 2750
 Glu Glu Leu Gln Ser Val Ser Gly Thr Thr Thr Cys Thr Met Gly Gln
 2755 2760 2765
 Thr Lys Cys Phe Ile Ser Ile Glu Leu Lys Pro Glu Lys Val Pro Gln
 2770 2775 2780
 Val Glu Val Tyr Phe Phe Val Glu Leu Tyr Glu Ala Thr Ala Gly Ala
 2785 2790 2795 2800
 Ala Ile Asn Asn Ser Ala Arg Phe Ala Gln Ile Lys Ile Leu Glu Ser
 2805 2810 2815
 Asp Glu Ser Gln Ser Leu Val Tyr Phe Ser Val Gly Ser Arg Leu Ala
 2820 2825 2830
 Val Ala His Lys Lys Ala Thr Leu Ile Ser Leu Gln Val Ala Arg Asp
 2835 2840 2845
 Ser Gly Thr Gly Leu Met Met Ser Val Asn Phe Ser Thr Gln Glu Leu
 2850 2855 2860
 Arg Ser Ala Glu Thr Ile Gly Arg Thr Ile Ile Ser Pro Ala Ile Ser
 2865 2870 2875 2880
 Gly Lys Asp Phe Val Ile Thr Glu Gly Thr Leu Val Phe Glu Pro Gly
 2885 2890 2895
 Gln Arg Ser Thr Val Leu Asp Val Ile Leu Thr Pro Glu Thr Gly Ser
 2900 2905 2910
 Leu Asn Ser Phe Pro Lys Arg Phe Gln Ile Val Leu Phe Asp Pro Lys
 2915 2920 2925
 Gly Gly Ala Arg Ile Asp Lys Val Tyr Gly Thr Ala Asn Ile Thr Leu
 2930 2935 2940
 Val Ser Asp Ala Asp Ser Gln Ala Ile Trp Gly Leu Ala Asp Gln Leu
 2945 2950 2955 2960
 His Gln Pro Val Asn Asp Asp Ile Leu Asn Arg Val Leu His Thr Ile
 2965 2970 2975
 Ser Met Lys Val Ala Thr Glu Asn Thr Asp Glu Gln Leu Ser Ala Met
 2980 2985 2990
 Met His Leu Ile Glu Lys Ile Thr Thr Glu Gly Lys Ile Gln Ala Phe
 2995 3000 3005
 Ser Val Ala Ser Arg Thr Leu Phe Tyr Glu Ile Leu Cys Ser Leu Ile
 3010 3015 3020
 Asn Pro Lys Arg Lys Asp Thr Arg Gly Phe Ser His Phe Ala Glu Leu
 3025 3030 3035 3040
 Thr Glu Asn Phe Ala Phe Ser Leu Leu Thr Asn Val Thr Cys Gly Ser
 3045 3050 3055
 Pro Gly Glu Lys Ser Lys Thr Ile Leu Asp Ser Cys Pro Tyr Leu Ser
 3060 3065 3070
 Ile Leu Ala Leu His Trp Tyr Pro Gln Gln Ile Asn Gly His Lys Phe
 3075 3080 3085
 Glu Gly Lys Glu Gly Asp Tyr Ile Arg Ile Pro Glu Arg Leu Leu Asp
 3090 3095 3100
 Val Gln Asp Ala Glu Ile Met Ala Gly Lys Ser Thr Cys Lys Leu Val
 3105 3110 3115 3120

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<210> 1102
<211> 945
<212> Amino acid
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> (1)...(945)  
<223> X = any amino acid or stop code
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<400> 1102

Ala	Ala	Gly	Ala	Thr	Met	Glu	Arg	Asp	Gly	Cys	Ala	Gly	Gly	Gly	Ser
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Arg	Gly	Gly	Glu	Gly	Gly	Arg	Ala	Pro	Arg	Glu	Gly	Pro	Ala	Gly	Asn
			20					25					30		
Gly	Arg	Asp	Arg	Gly	Arg	Ser	His	Ala	Ala	Glu	Ala	Pro	Gly	Asp	Pro
		35					40					45			
Gln	Ala	Ala	Ala	Ser	Leu	Leu	Ala	Pro	Met	Asp	Val	Gly	Glu	Glu	Pro
		50				55					60				
Leu	Glu	Lys	Ala	Ala	Arg	Ala	Arg	Thr	Ala	Lys	Asp	Pro	Asn	Thr	Tyr
		65			70					75				80	
Lys	Val	Leu	Ser	Leu	Val	Leu	Ser	Val	Cys	Val	Leu	Thr	Thr	Ile	Leu
				85					90					95	
Gly	Cys	Ile	Phe	Gly	Leu	Lys	Pro	Ser	Cys	Ala	Lys	Glu	Val	Lys	Ser
			100					105					110		
Cys	Lys	Gly	Arg	Cys	Phe	Glu	Arg	Thr	Phe	Gly	Asn	Cys	Arg	Cys	Asp
		115					120					125			
Ala	Ala	Cys	Val	Glu	Leu	Gly	Asn	Cys	Cys	Leu	Gly	Leu	Pro	Gly	Gly
		130				135						140			
Thr	Cys	Ile	Glu	Pro	Glu	His	Ile	Trp	Thr	Cys	Asn	Lys	Phe	Arg	Cys
		145				150					155				160
Gly	Glu	Lys	Arg	Leu	Thr	Arg	Ser	Leu	Cys	Ala	Cys	Ser	Asp	Asp	Cys
				165					170					175	
Lys	Asp	Arg	Gly	Asp	Cys	Leu	Pro	Ser	Asn	Leu	Gln	Phe	Leu	Cys	Val
			180						185				190		
Gln	Gly	Glu	Lys	Ser	Trp	Gly	Arg	Lys	Asn	Pro	Cys	Glu	Ser	His	Leu
		195					200					205			
Met	Glu	Pro	Gln	Cys	Pro	Ala	Gly	Phe	Glu	Thr	Pro	Ser	Leu	Pro	Leu
		210				215						220			
Leu	Ile	Phe	Ser	Leu	Asp	Gly	Phe	Arg	Ala	Glu	Tyr	Leu	His	Thr	Trp
		225			230						235				240
Gly	Gly	Leu	Leu	Pro	Val	Ile	Ser	Lys	Leu	Lys	Lys	Cys	Gly	Thr	Tyr
				245					250					255	
Thr	Lys	Asn	Met	Arg	Pro	Val	Tyr	Pro	Thr	Lys	Thr	Phe	Pro	Asn	His
			260					265					270		
Tyr	Ser	Ile	Val	Thr	Gly	Leu	Tyr	Pro	Glu	Ser	His	Gly	Ile	Ile	Asn
		275					280					285			
Asn	Lys	Met	Tyr	Asp	Pro	Lys	Met	Asn	Ala	Ser	Phe	Ser	Leu	Lys	Ser
		290				295					300				
Lys	Glu	Lys	Phe	Asn	Pro	Glu	Trp	Tyr	Lys	Gly	Glu	Pro	Ile	Trp	Val
		305			310					315				320	
Thr	Ala	Lys	Tyr	Gln	Gly	Leu	Lys	Ser	Gly	Thr	Phe	Phe	Trp	Pro	Gly
				325					330					335	
Ser	Asp	Val	Glu	Ile	Asn	Gly	Ile	Phe	Pro	Asp	Ile	Tyr	Lys	Met	Tyr
			340					345					350		
Asn	Gly	Ser	Val	Pro	Phe	Glu	Glu	Arg	Ile	Leu	Ala	Val	Leu	Gln	Trp
		355					360					365			
Leu	Gln	Leu	Pro	Lys	Asp	Glu	Arg	Pro	His	Phe	Tyr	Thr	Leu	Tyr	Leu
		370				375					380				
Glu	Glu	Pro	Asp	Ser	Ser	Gly	His	Ser	Tyr	Gly	Pro	Val	Ser	Ser	Glu
		385			390					395					400
Val	Ile	Lys	Ala	Leu	Gln	Arg	Val	Asp	Gly	Met	Val	Gly	Met	Leu	Met
				405					410					415	
Asp	Gly	Leu	Lys	Glu	Leu	Asn	Leu	His	Arg	Cys	Leu	Asn	Leu	Ile	Leu
			420					425					430		
Ile	Ser	Asp	His	Gly	Met	Glu	Gln	Gly	Ser	Cys	Lys	Lys	Tyr	Ile	Tyr
		435					440					445			
Leu	Asn	Lys	Tyr	Leu	Gly	Asp	Val	Lys	Asn	Ile	Lys	Val	Ile	Tyr	Gly
		450				455					460				
Pro	Ala	Ala	Arg	Leu	Arg	Pro	Ser	Asp	Val	Pro	Asp	Lys	Tyr	Tyr	Ser

465 470 475 480
 Phe Asn Tyr Glu Gly Ile Ala Arg Asn Leu Ser Cys Arg Glu Pro Asn
 485 490 495
 Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His
 500 505 510
 Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro
 515 520 525
 Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser
 530 535 540
 Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe
 545 550 555 560
 Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe
 565 570 575
 Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr
 580 585 590
 Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys
 595 600 605
 Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val
 610 615 620
 Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys
 625 630 635 640
 Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu
 645 650 655
 Thr Val Ala Glu Gly Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly
 660 665 670
 Arg Pro Arg Val Leu Gln Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln
 675 680 685
 His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp
 690 695 700
 Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe
 705 710 715 720
 Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His
 725 730 735
 Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu
 740 745 750
 Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala
 755 760 765
 Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile
 770 775 780
 Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg
 785 790 795 800
 Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp
 805 810 815
 Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His
 820 825 830
 Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr
 835 840 845
 Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys
 850 855 860
 Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp
 865 870 875 880
 Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val
 885 890 895
 Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa
 900 905 910
 Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val
 915 920 925
 Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu
 930 935 940
 Asp
 945

<211> 217
 <212>Amino acid
 <213> Homo sapiens

<400> 1103
 Thr Val Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro
 1 5 10 15
 Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg
 20 25 30
 Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg
 35 40 45
 Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn
 50 55 60
 Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn
 65 70 75 80
 Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr
 85 90 95
 Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu
 100 105 110
 Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His
 115 120 125
 Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser
 130 135 140
 Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala
 145 150 155 160
 Gly Gly Trp Gly Trp Phe Phe Asn Lys His Ala Leu Gln Arg Ala Pro
 165 170 175
 Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu
 180 185 190
 Ile Asn Tyr Gly Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu
 195 200 205
 Ala Ala Pro Pro Asn Lys His Arg Arg
 210 215 217

<210> 1104
 <211> 436
 <212>Amino acid
 <213> Homo sapiens

<400> 1104
 His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val
 1 5 10 15
 Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr
 20 25 30
 Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met
 35 40 45
 Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro
 50 55 60
 Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp
 65 70 75 80
 Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val
 85 90 95
 Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly
 100 105 110
 Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

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      115      120      125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly
      130      135      140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala
145      150      155      160
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu
      165      170      175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Leu Phe Ala
      180      185      190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu
      195      200      205
His Asp Thr His Asp Ala Leu Asn Val Val Val Gln Leu Glu Lys Gln
      210      215      220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp
225      230      235      240
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu
      245      250      255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His
      260      265      270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu
      275      280      285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp
      290      295      300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr
305      310      315      320
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly
      325      330      335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile
      340      345      350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala
      355      360      365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser
      370      375      380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp
385      390      395      400
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala
      405      410      415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser
      420      425      430
Glu Ala Glu Cys
      435 436

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<210> 1105

<211> 113

<212> Amino acid

<213> Homo sapiens

<400> 1105

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Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Arg Arg His Gln
 1      5      10      15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg
      20      25      30
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly
      35      40      45
Cys Glu Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu
      50      55      60
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala
      65      70      75      80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu

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85 90 95
 Ser Arg Ile Arg Gly Met Arg Lys Leu Ser Pro Pro Gln Lys Lys Ser
 100 105 110
 Val
 113

<210> 1106
 <211> 464
 <212> Amino acid
 <213> Homo sapiens

<400> 1106
 Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala
 1 5 10 15
 Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu
 20 25 30
 Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile
 35 40 45
 Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn
 50 55 60
 Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met
 65 70 75 80
 Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu
 85 90 95
 Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro
 100 105 110
 Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys
 115 120 125
 Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu
 130 135 140
 Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu
 145 150 155 160
 Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg
 165 170 175
 Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp
 180 185 190
 Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp
 195 200 205
 Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser
 210 215 220
 Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr
 225 230 235 240
 Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln
 245 250 255
 Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser
 260 265 270
 Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr
 275 280 285
 Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp
 290 295 300
 Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln
 305 310 315 320
 Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro
 325 330 335
 Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser
 340 345 350
 Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro
 355 360 365
 Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu

370	375	380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp		
385	390	395
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp		400
	405	410
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg		415
	420	425
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys		430
	435	440
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr		445
450	455	460
		464

<210> 1107
 <211> 153
 <212> Amino acid
 <213> Homo sapiens

<400> 1107														
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr														
1			5					10					15	
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val														
		20					25					30		
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn														
	35				40					45				
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly														
	50				55				60					
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met														
	65			70				75					80	
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr														
		85					90						95	
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile														
	100					105						110		
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu														
	115				120				125					
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe														
	130			135				140						
Met Tyr Trp Ser Leu Arg Gly Gly Ser														
145			150				153							

<210> 1108
 <211> 506
 <212> Amino acid
 <213> Homo sapiens

<400> 1108														
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly														
1			5					10					15	
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly														
	20					25					30			
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser														
	35				40					45				
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly														

50	55	60
Pro Asp Pro Leu Asp Thr Arg Arg Leu Gln Gly Phe Arg Leu Glu Glu		
65	70	75
Tyr Leu Ile Gly Gln Ser Ile Gly Lys Gly Cys Ser Ala Ala Val Tyr		80
	85	90
Glu Ala Thr Met Pro Thr Leu Pro Gln Asn Leu Glu Val Thr Lys Ser		95
	100	105
Thr Gly Leu Leu Pro Gly Arg Gly Pro Gly Thr Ser Ala Pro Gly Glu		110
	115	120
Gly Gln Glu Arg Ala Pro Gly Ala Pro Ala Phe Pro Leu Ala Ile Lys		125
	130	135
Met Met Trp Asn Ile Ser Ala Gly Ser Ser Ser Glu Ala Ile Leu Asn		140
145	150	155
Thr Met Ser Gln Glu Leu Val Pro Ala Ser Arg Val Ala Leu Ala Gly		160
	165	170
Glu Tyr Gly Ala Val Thr Tyr Arg Lys Ser Lys Arg Gly Pro Lys Gln		175
	180	185
Leu Ala Pro His Pro Asn Ile Ile Arg Val Leu Arg Ala Phe Thr Ser		190
	195	200
Ser Val Pro Leu Leu Pro Gly Ala Leu Val Asp Tyr Pro Asp Val Leu		205
	210	215
Pro Ser Arg Leu His Pro Glu Gly Leu Gly His Gly Arg Thr Leu Phe		220
225	230	235
Leu Val Met Lys Asn Tyr Pro Cys Thr Leu Arg Gln Tyr Leu Cys Val		240
	245	250
Asn Thr Pro Ser Pro Arg Leu Ala Ala Met Met Leu Leu Gln Leu Leu		255
	260	265
Glu Gly Val Asp His Leu Val Gln Gln Gly Ile Ala His Arg Asp Leu		270
	275	280
Lys Ser Asp Asn Ile Leu Val Glu Leu Asp Pro Asp Gly Cys Pro Trp		285
	290	295
Leu Val Ile Ala Asp Phe Gly Cys Cys Leu Ala Asp Glu Ser Ile Gly		300
305	310	315
Leu Gln Leu Pro Phe Ser Ser Trp Tyr Val Asp Arg Gly Gly Asn Gly		320
	325	330
Cys Leu Met Ala Pro Glu Val Ser Thr Ala Arg Pro Gly Pro Arg Ala		335
	340	345
Val Ile Asp Tyr Ser Lys Ala Asp Ala Trp Ala Val Gly Ala Ile Ala		350
	355	360
Tyr Glu Ile Phe Gly Leu Val Asn Pro Phe Tyr Gly Gln Gly Lys Ala		365
	370	375
His Leu Glu Ser Arg Ser Tyr Gln Glu Ala Gln Leu Pro Ala Leu Pro		380
385	390	395
Glu Ser Val Pro Pro Asp Val Arg Gln Leu Val Arg Ala Leu Leu Gln		400
	405	410
Arg Glu Ala Ser Lys Arg Pro Ser Ala Arg Val Ala Ala Asn Val Leu		415
	420	425
His Leu Ser Leu Trp Gly Glu His Ile Leu Ala Leu Lys Asn Leu Lys		430
	435	440
Leu Asp Lys Met Val Gly Trp Leu Leu Gln Gln Ser Ala Ala Thr Leu		445
	450	455
Leu Ala Asn Arg Leu Thr Glu Lys Cys Cys Val Glu Thr Lys Met Lys		460
465	470	475
Met Leu Phe Leu Ala Asn Leu Glu Cys Glu Thr Leu Cys Gln Ala Ala		480
	485	490
Leu Leu Leu Cys Ser Trp Arg Ala Ala Leu		495
	500	505
		506

<210> 1109

<211> 382

<212> Amino acid

<213> Homo sapiens

<400> 1109

Arg	Pro	Leu	Leu	Arg	Leu	Ala	Glu	Leu	Pro	Asp	His	Cys	Tyr	Arg	Met
1				5					10					15	
Asn	Ser	Ser	Pro	Ala	Gly	Thr	Pro	Ser	Pro	Gln	Pro	Ser	Arg	Ala	Asn
			20					25					30		
Gly	Asn	Ile	Asn	Leu	Gly	Pro	Ser	Ala	Asn	Pro	Asn	Ala	Gln	Pro	Thr
	35						40					45			
Asp	Phe	Asp	Phe	Leu	Lys	Val	Ile	Gly	Lys	Gly	Asn	Tyr	Gly	Lys	Val
	50					55					60				
Leu	Leu	Ala	Lys	Arg	Lys	Ser	Asp	Gly	Ala	Phe	Tyr	Ala	Val	Lys	Val
65					70					75				80	
Leu	Gln	Lys	Lys	Ser	Ile	Leu	Lys	Lys	Lys	Glu	Gln	Ser	His	Ile	Met
				85					90					95	
Ala	Glu	Arg	Ser	Val	Leu	Leu	Lys	Asn	Val	Arg	His	Pro	Phe	Leu	Val
			100					105					110		
Gly	Leu	Arg	Tyr	Ser	Phe	Gln	Thr	Pro	Glu	Lys	Leu	Tyr	Phe	Val	Leu
	115						120					125			
Asp	Tyr	Val	Asn	Gly	Gly	Glu	Leu	Phe	Phe	His	Leu	Gln	Arg	Glu	Arg
	130					135					140				
Arg	Phe	Leu	Glu	Pro	Arg	Ala	Arg	Phe	Tyr	Ala	Ala	Glu	Val	Ala	Ser
145					150					155					160
Ala	Ile	Gly	Tyr	Leu	His	Ser	Leu	Asn	Ile	Ile	Tyr	Arg	Asp	Leu	Lys
				165					170					175	
Pro	Glu	Asn	Ile	Leu	Leu	Asp	Cys	Gln	Gly	His	Val	Val	Leu	Thr	Asp
			180					185					190		
Phe	Gly	Leu	Cys	Lys	Glu	Gly	Val	Glu	Pro	Glu	Asp	Thr	Thr	Ser	Thr
	195						200					205			
Phe	Cys	Gly	Thr	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Val	Leu	Arg	Lys	Glu
	210					215					220				
Pro	Tyr	Asp	Arg	Ala	Val	Asp	Trp	Trp	Cys	Leu	Gly	Ala	Val	Leu	Tyr
225					230					235					240
Glu	Met	Leu	His	Gly	Leu	Pro	Pro	Phe	Tyr	Ser	Gln	Asp	Val	Ser	Gln
				245					250					255	
Met	Tyr	Glu	Asn	Ile	Leu	His	Gln	Pro	Leu	Gln	Ile	Pro	Gly	Gly	Arg
			260					265					270		
Thr	Val	Ala	Ala	Cys	Asp	Leu	Leu	Gln	Ser	Leu	Leu	His	Lys	Asp	Gln
	275						280					285			
Arg	Gln	Arg	Leu	Gly	Ser	Lys	Ala	Asp	Phe	Leu	Glu	Ile	Lys	Asn	His
	290					295					300				
Val	Phe	Phe	Ser	Pro	Ile	Asn	Trp	Asp	Asp	Leu	Tyr	His	Lys	Arg	Leu
305					310					315					320
Thr	Pro	Pro	Phe	Asn	Pro	Asn	Val	Thr	Gly	Pro	Ala	Asp	Leu	Lys	His
				325					330					335	
Phe	Asp	Pro	Glu	Phe	Thr	Gln	Glu	Ala	Val	Ser	Lys	Ser	Ile	Gly	Cys
			340					345					350		
Thr	Pro	Asp	Thr	Val	Ala	Ser	Ser	Ser	Gly	Ala	Ser	Ser	Ala	Phe	Leu
	355						360					365			
Gly	Phe	Ser	Tyr	Ala	Pro	Glu	Asp	Asp	Asp	Ile	Leu	Asp	Cys		
	370					375					380		382		

<210> 1110

<211> 535

<212> Amino acid

<213> Homo sapiens

<400> 1110

Arg	Pro	Gln	Thr	Leu	Lys	Gly	His	Gln	Glu	Lys	Ile	Arg	Gln	Arg	Gln
1				5					10					15	
Ser	Ile	Leu	Pro	Pro	Pro	Gln	Gly	Pro	Ala	Pro	Ile	Pro	Phe	Gln	His
			20					25					30		
Arg	Gly	Gly	Asp	Ser	Pro	Glu	Ala	Lys	Asn	Arg	Val	Gly	Pro	Gln	Val
	35						40					45			
Pro	Leu	Ser	Glu	Pro	Gly	Phe	Arg	Arg	Arg	Glu	Ser	Gln	Glu	Glu	Pro
	50					55					60				
Arg	Ala	Val	Leu	Ala	Gln	Lys	Ile	Glu	Lys	Glu	Thr	Gln	Ile	Leu	Asn
	65				70					75					80
Cys	Ala	Leu	Asp	Asp	Ile	Glu	Trp	Phe	Val	Ala	Arg	Leu	Gln	Lys	Ala
			85						90					95	
Ala	Glu	Ala	Phe	Lys	Gln	Leu	Asn	Gln	Arg	Lys	Lys	Gly	Lys	Lys	Lys
			100					105					110		
Gly	Lys	Lys	Ala	Pro	Ala	Glu	Gly	Val	Leu	Thr	Leu	Arg	Ala	Arg	Pro
	115					120						125			
Pro	Ser	Glu	Gly	Glu	Phe	Ile	Asp	Cys	Phe	Gln	Lys	Ile	Lys	Leu	Ala
	130					135					140				
Ile	Asn	Leu	Leu	Ala	Lys	Leu	Gln	Lys	His	Ile	Gln	Asn	Pro	Ser	Ala
	145				150					155					160
Ala	Glu	Leu	Val	His	Phe	Leu	Phe	Gly	Pro	Leu	Asp	Leu	Ile	Val	Asn
			165						170					175	
Thr	Cys	Ser	Gly	Pro	Asp	Ile	Ala	Arg	Ser	Val	Ser	Cys	Pro	Leu	Leu
			180					185					190		
Ser	Arg	Asp	Ala	Val	Asp	Phe	Leu	Arg	Gly	His	Leu	Val	Pro	Lys	Glu
	195						200					205			
Met	Ser	Leu	Trp	Glu	Ser	Leu	Gly	Glu	Ser	Trp	Met	Arg	Pro	Arg	Ser
	210					215					220				
Glu	Trp	Pro	Arg	Glu	Pro	Gln	Val	Pro	Leu	Tyr	Val	Pro	Lys	Phe	His
	225				230					235					240
Ser	Gly	Trp	Glu	Pro	Pro	Val	Asp	Val	Leu	Gln	Glu	Ala	Pro	Trp	Glu
			245					250					255		
Val	Glu	Gly	Leu	Ala	Ser	Ala	Pro	Ile	Glu	Glu	Val	Ser	Pro	Val	Ser
			260					265					270		
Arg	Gln	Ser	Ile	Arg	Asn	Ser	Gln	Lys	His	Ser	Pro	Thr	Ser	Glu	Pro
	275					280						285			
Thr	Pro	Pro	Gly	Asp	Ala	Leu	Pro	Pro	Val	Ser	Ser	Pro	His	Thr	His
	290					295					300				
Arg	Gly	Tyr	Gln	Pro	Thr	Pro	Ala	Met	Ala	Lys	Tyr	Val	Lys	Ile	Leu
	305				310					315					320
Tyr	Asp	Phe	Thr	Ala	Arg	Asn	Ala	Asn	Glu	Leu	Ser	Val	Leu	Lys	Asp
			325					330					335		
Glu	Val	Leu	Glu	Val	Leu	Glu	Asp	Gly	Arg	Gln	Trp	Trp	Lys	Leu	Arg
			340					345					350		
Ser	Arg	Ser	Gly	Gln	Ala	Gly	Tyr	Val	Pro	Cys	Asn	Ile	Leu	Gly	Glu
		355				360					365				
Ala	Arg	Pro	Glu	Asp	Ala	Gly	Ala	Pro	Phe	Glu	Gln	Ala	Gly	Gln	Lys
	370					375					380				
Tyr	Trp	Gly	Pro	Ala	Ser	Pro	Thr	His	Lys	Leu	Pro	Pro	Ser	Phe	Pro
	385				390					395					400
Gly	Asn	Lys	Asp	Glu	Leu	Met	Gln	His	Met	Asp	Glu	Val	Asn	Asp	Glu
			405						410				415		
Leu	Ile	Arg	Lys	Ile	Ser	Asn	Ile	Arg	Ala	Gln	Pro	Gln	Arg	His	Phe
			420					425					430		
Arg	Val	Glu	Arg	Ser	Gln	Pro	Val	Ser	Gln	Pro	Leu	Thr	Tyr	Glu	Ser
			435					440					445		
Gly	Pro	Asp	Glu	Val	Arg	Ala	Trp	Leu	Glu	Ala	Lys	Ala	Phe	Ser	Pro
	450					455					460				
Arg	Ile	Val	Glu	Asn	Leu	Gly	Ile	Leu	Thr	Gly	Pro	Gln	Leu	Phe	Ser
	465				470					475					480
Leu	Asn	Lys	Glu	Glu	Leu	Lys	Lys	Val	Cys	Gly	Glu	Glu	Gly	Val	Arg
			485						490					495	
Val	Tyr	Ser	Gln	Leu	Thr	Met	Gln	Lys	Ala	Phe	Leu	Glu	Lys	Gln	Gln

500 505 510
 Ser Gly Ser Glu Leu Glu Glu Leu Met Asn Lys Phe His Ser Met Asn
 515 520 525
 Gln Arg Arg Gly Glu Asp Ser
 530 535

<210> 1111

<211> 346

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> X = any amino acid or stop code

<400> 1111
 Ala Trp His Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu
 1 5 10 15
 Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val
 20 25 30
 Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu
 35 40 45
 Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys
 50 55 60
 Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr
 65 70 75 80
 Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala
 85 90 95
 Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe
 100 105 110
 Gly Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser
 115 120 125
 Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly
 130 135 140
 Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu
 145 150 155 160
 Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly
 165 170 175
 Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu
 180 185 190
 Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile
 195 200 205
 Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr
 210 215 220
 Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro
 225 230 235 240
 Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly
 245 250 255
 Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Ala
 260 265 270
 Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His
 275 280 285
 Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser
 290 295 300
 Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu
 305 310 315 320
 Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu Xaa Thr Arg
 325 330 335

Gln Lys Val Gly Phe Cys Ile Arg His Leu
 340 345 346

<210> 1112
 <211> 647
 <212> Amino acid
 <213> Homo sapiens

<400> 1112
 Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala
 1 5 10 15
 Val Gly Trp Leu Pro Leu Ala Gln Gln Pro Leu Pro Pro Ala Pro Gly
 20 25 30
 Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly
 35 40 45
 Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr
 50 55 60
 Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly
 65 70 75 80
 Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn
 85 90 95
 Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln
 100 105 110
 Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val
 115 120 125
 Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala
 130 135 140
 Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro
 145 150 155 160
 Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe
 165 170 175
 Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr
 180 185 190
 Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile
 195 200 205
 Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly
 210 215 220
 Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu
 225 230 235 240
 Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg
 245 250 255
 Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile
 260 265 270
 Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser
 275 280 285
 Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys
 290 295 300
 Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys
 305 310 315 320
 Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala
 325 330 335
 Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn
 340 345 350
 Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val
 355 360 365
 Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala
 370 375 380
 Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile
 385 390 395 400

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<210> 1113
<211> 220
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(220)
<223> X = any amino acid or stop code
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640

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<210> 1114
<211> 382
<212> Amino acid
<213> Homo sapiens
```

641

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305          310          315          320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr
          325          330          335
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg
          340          345          350
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro
          355          360          365
Pro Gly Gly Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
          370          375          380          382

```

<210> 1115
 <211> 109
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1115
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu
 1          5          10          15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala
          20          25          30
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys
          35          40          45
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser
          50          55          60
Ser Leu Arg Tyr Glu Leu Leu Glu Glu Lys Ser Gln Ala Thr Gly Glu
          65          70          75          80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu
          85          90          95
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile
          100          105          109

```

<210> 1116
 <211> 679
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1116
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser
 1          5          10          15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu
          20          25          30
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala
          35          40          45
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val
          50          55          60
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys
          65          70          75          80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys
          85          90          95
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly
          100          105          110
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser
          115          120          125
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Gly Lys

```

643

645
 Pro Ser Asp Arg Leu Lys Pro Ser His Arg Gly Gly Leu Leu Thr Asp
 660
 Lys Gly His Cys Glu Ser Gln
 675 679

<210> 1117
 <211> 1193
 <212> Amino acid
 <213> Homo sapiens

<400> 1117
 Ala Phe Leu Ser Lys Val Glu Glu Asp Asp Tyr Pro Ser Glu Glu Leu
 1 5 10 15
 Leu Glu Asp Glu Asn Ala Ile Asn Ala Lys Arg Ser Lys Glu Lys Asn
 20 25 30
 Pro Gly Asn Gln Gly Arg Gln Phe Asp Val Asn Leu Gln Val Pro Asp
 35 40 45
 Arg Ala Val Leu Gly Thr Ile His Pro Asp Pro Glu Ile Glu Glu Ser
 50 55 60
 Lys Gln Glu Thr Ser Met Ile Leu Asp Ser Glu Lys Thr Ser Glu Thr
 65 70 75 80
 Ala Ala Lys Gly Val Asn Thr Gly Gly Arg Glu Pro Asn Thr Met Val
 85 90 95
 Glu Lys Glu Arg Pro Leu Ala Asp Lys Lys Ala Gln Arg Pro Phe Glu
 100 105 110
 Arg Ser Asp Phe Ser Asp Ser Ile Lys Ile Gln Thr Pro Glu Leu Gly
 115 120 125
 Glu Val Phe Gln Asn Lys Asp Ser Asp Tyr Leu Lys Asn Asp Asn Pro
 130 135 140
 Glu Glu His Leu Lys Thr Ser Gly Leu Ala Gly Glu Pro Glu Gly Glu
 145 150 155 160
 Leu Ser Lys Glu Asp His Glu Asn Thr Glu Lys Tyr Met Gly Thr Glu
 165 170 175
 Ser Gln Gly Ser Ala Ala Ala Glu Pro Glu Asp Asp Ser Phe His Trp
 180 185 190
 Thr Pro His Thr Ser Val Glu Pro Gly His Ser Asp Lys Arg Glu Asp
 195 200 205
 Leu Leu Ile Ile Ser Ser Phe Phe Lys Glu Gln Gln Ser Leu Gln Arg
 210 215 220
 Phe Gln Lys Tyr Phe Asn Val His Glu Leu Glu Ala Leu Leu Gln Glu
 225 230 235 240
 Met Ser Ser Lys Leu Lys Ser Ala Gln Gln Glu Ser Leu Pro Tyr Asn
 245 250 255
 Met Glu Lys Val Leu Asp Lys Val Phe Arg Ala Ser Glu Ser Gln Ile
 260 265 270
 Leu Ser Ile Ala Glu Lys Met Leu Asp Thr Arg Val Ala Glu Asn Arg
 275 280 285
 Asp Leu Gly Met Asn Glu Asn Asn Ile Phe Glu Glu Ala Ala Val Leu
 290 295 300
 Asp Asp Ile Gln Asp Leu Ile Tyr Phe Val Arg Tyr Lys His Ser Thr
 305 310 315 320
 Ala Glu Glu Thr Ala Thr Leu Val Met Ala Pro Pro Leu Glu Glu Gly
 325 330 335
 Leu Gly Gly Ala Met Glu Glu Met Gln Pro Leu His Glu Asp Asn Phe
 340 345 350
 Ser Arg Glu Lys Thr Ala Glu Leu Asn Val Gln Val Pro Glu Glu Pro
 355 360 365
 Thr His Leu Asp Gln Arg Val Ile Gly Asp Thr His Ala Ser Glu Val

370	375	380
Ser Gln Lys Pro Asn Thr Glu Lys Asp Leu Asp Pro Gly Pro Val Thr		
385	390	395
Thr Glu Asp Thr Pro Met Asp Ala Ile Asp Ala Asn Lys Gln Pro Glu		400
	405	410
Thr Ala Ala Glu Glu Pro Ala Ser Val Thr Pro Leu Glu Asn Ala Ile		415
	420	425
Leu Leu Ile Tyr Ser Phe Met Phe Tyr Leu Thr Lys Ser Leu Val Ala		430
	435	440
Thr Leu Pro Asp Asp Val Gln Pro Gly Pro Asp Phe Tyr Gly Leu Pro		445
	450	455
Trp Lys Pro Val Phe Ile Thr Ala Phe Leu Gly Ile Ala Ser Phe Ala		460
465	470	475
Ile Phe Leu Trp Arg Thr Val Leu Val Val Lys Asp Arg Val Tyr Gln		480
	485	490
Val Thr Glu Gln Gln Ile Ser Glu Lys Leu Lys Thr Ile Met Lys Glu		495
	500	505
Asn Thr Glu Leu Val Gln Lys Leu Ser Asn Tyr Glu Gln Lys Ile Lys		510
	515	520
Glu Ser Lys Lys His Val Gln Glu Thr Arg Lys Gln Asn Met Ile Leu		525
	530	535
Ser Asp Glu Ala Ile Lys Tyr Lys Asp Lys Ile Lys Thr Leu Glu Lys		540
545	550	555
Asn Gln Glu Ile Leu Asp Asp Thr Ala Lys Asn Leu Arg Val Met Leu		560
	565	570
Glu Ser Glu Arg Glu Gln Asn Val Lys Asn Gln Asp Leu Ile Ser Glu		575
	580	585
Asn Lys Lys Ser Ile Glu Lys Leu Lys Asp Val Ile Ser Met Asn Ala		590
	595	600
Ser Glu Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser		605
	610	615
Glu Glu Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala		620
625	630	635
Arg Leu Lys Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp		640
	645	650
Ser Lys Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys		655
	660	665
Ser Gln Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile		670
	675	680
Asn Ala Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu		685
	690	695
Ser Glu Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu		700
705	710	715
Ala Asn Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln		720
	725	730
Ile Lys Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val		735
	740	745
Val Glu Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val		750
	755	760
Ser Thr Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp		765
	770	775
Arg Asn Ser Leu Gln Ala Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys		780
785	790	795
Thr Leu Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys		800
	805	810
Glu Met Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln		815
	820	825
Glu Arg Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala		830
	835	840
Ala Glu Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp		845
	850	855
Glu Leu Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His		860
865	870	875
Glu Lys Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg		880

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      885      890      895
Ala Ile Ala Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu
      900      905      910
Leu Asp Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile
      915      920      925
Val Lys Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg
      930      935      940
Gly Pro Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly
      945      950      955      960
Gly Glu Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu
      965      970      975
Ser Ala Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser
      980      985      990
Leu Asp Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly
      995      1000      1005
Lys Pro Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn
      1010      1015      1020
Ser Ser Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys
      1025      1030      1035      1040
Val Asn Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu
      1045      1050      1055
Met Ser Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly
      1060      1065      1070
Pro Pro Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg Pro Leu Pro Pro
      1075      1080      1085
Pro Phe Gly Pro Gly Met Arg Pro Pro Leu Gly Leu Arg Glu Phe Ala
      1090      1095      1100
Pro Gly Val Pro Pro Gly Arg Arg Asp Leu Pro Leu His Pro Arg Gly
      1105      1110      1115      1120
Phe Leu Pro Gly His Ala Pro Phe Arg Pro Leu Gly Ser Leu Gly Pro
      1125      1130      1135
Arg Glu Tyr Phe Ile Pro Gly Thr Arg Leu Pro Pro Pro Thr His Gly
      1140      1145      1150
Pro Gln Glu Tyr Pro Pro Pro Pro Ala Val Arg Asp Leu Leu Pro Ser
      1155      1160      1165
Gly Ser Arg Asp Glu Pro Pro Pro Ala Ser Gln Ser Thr Ser Gln Asp
      1170      1175      1180
Cys Ser Gln Ala Leu Lys Gln Ser Pro
      1185      1190      1193

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<210> 1118

<211> 981

<212> Amino acid

<213> Homo sapiens

<400> 1118

```

Met Ala Ala Asp Ser Glu Pro Glu Ser Glu Val Phe Glu Ile Thr Asp
1      5      10      15
Phe Thr Thr Ala Ser Glu Trp Glu Arg Phe Ile Ser Lys Val Glu Glu
      20      25      30
Val Leu Asn Asp Trp Lys Leu Ile Gly Asn Ser Leu Gly Lys Pro Leu
      35      40      45
Glu Lys Gly Ile Phe Thr Ser Gly Thr Trp Glu Glu Lys Ser Asp Glu
      50      55      60
Ile Ser Phe Ala Asp Phe Lys Phe Ser Val Thr His His Tyr Leu Val
      65      70      75      80
Gln Glu Ser Thr Asp Lys Glu Gly Lys Asp Glu Leu Leu Glu Asp Val
      85      90      95
Val Pro Gln Ser Met Gln Asp Leu Leu Gly Met Asn Asn Asp Phe Pro

```

100										105					110							
Pro	Arg	Ala	His	Cys	Leu	Val	Arg	Trp	Tyr	Gly	Leu	Arg	Glu	Phe	Val							
		115					120					125										
Val	Ile	Ala	Pro	Ala	Ala	His	Ser	Asp	Ala	Val	Leu	Ser	Glu	Ser	Lys							
		130				135					140											
Cys	Asn	Leu	Leu	Leu	Ser	Ser	Val	Ser	Ile	Ala	Leu	Gly	Asn	Thr	Gly							
145					150					155					160							
Cys	Gln	Val	Pro	Leu	Phe	Val	Gln	Ile	His	His	Lys	Trp	Arg	Arg	Met							
				165				170						175								
Tyr	Val	Gly	Glu	Cys	Gln	Gly	Pro	Gly	Val	Arg	Thr	Asp	Phe	Glu	Met							
			180					185					190									
Val	His	Leu	Arg	Lys	Val	Pro	Asn	Gln	Tyr	Thr	His	Leu	Ser	Gly	Leu							
		195					200					205										
Leu	Asp	Ile	Phe	Lys	Ser	Lys	Ile	Gly	Cys	Pro	Leu	Thr	Pro	Leu	Pro							
	210					215					220											
Pro	Val	Ser	Ile	Ala	Ile	Arg	Phe	Thr	Tyr	Val	Leu	Gln	Asp	Trp	Gln							
225				230						235					240							
Gln	Tyr	Phe	Trp	Pro	Gln	Gln	Pro	Pro	Asp	Ile	Asp	Ala	Leu	Val	Gly							
				245				250						255								
Gly	Glu	Val	Gly	Gly	Leu	Glu	Phe	Gly	Lys	Leu	Pro	Phe	Gly	Ala	Cys							
			260					265					270									
Glu	Asp	Pro	Ile	Ser	Glu	Leu	His	Leu	Ala	Thr	Thr	Trp	Pro	His	Leu							
	275						280					285										
Thr	Glu	Gly	Ile	Ile	Val	Asp	Asn	Asp	Val	Tyr	Ser	Asp	Leu	Asp	Pro							
	290					295					300											
Ile	Gln	Ala	Pro	His	Trp	Ser	Val	Arg	Val	Arg	Lys	Ala	Glu	Asn	Pro							
305				310						315					320							
Gln	Cys	Leu	Leu	Gly	Asp	Phe	Val	Thr	Glu	Phe	Phe	Lys	Ile	Cys	Arg							
				325				330						335								
Arg	Lys	Glu	Ser	Thr	Asp	Glu	Ile	Leu	Gly	Arg	Ser	Ala	Phe	Glu	Glu							
			340					345					350									
Glu	Gly	Lys	Glu	Thr	Ala	Asp	Ile	Thr	His	Ala	Leu	Ser	Lys	Leu	Thr							
		355					360					365										
Glu	Pro	Ala	Ser	Val	Pro	Ile	His	Lys	Leu	Ser	Val	Ser	Asn	Met	Val							
	370					375					380											
His	Thr	Ala	Lys	Lys	Lys	Ile	Arg	Lys	His	Arg	Gly	Val	Glu	Glu	Ser							
385					390					395					400							
Pro	Leu	Asn	Asn	Asp	Val	Leu	Asn	Thr	Ile	Leu	Leu	Phe	Leu	Phe	Pro							
			405					410						415								
Asp	Ala	Val	Ser	Glu	Lys	Pro	Leu	Asp	Gly	Thr	Thr	Ser	Thr	Asp	Asn							
			420					425					430									
Asn	Asn	Pro	Pro	Ser	Glu	Ser	Glu	Asp	Tyr	Asn	Leu	Tyr	Asn	Gln	Phe							
		435					440					445										
Lys	Ser	Ala	Pro	Ser	Asp	Ser	Leu	Thr	Tyr	Lys	Leu	Ala	Leu	Cys	Leu							
	450					455					460											
Cys	Met	Ile	Asn	Phe	Tyr	His	Gly	Gly	Leu	Lys	Gly	Val	Ala	His	Leu							
465					470					475					480							
Trp	Gln	Glu	Phe	Val	Leu	Glu	Met	Arg	Phe	Arg	Trp	Glu	Asn	Asn	Phe							
			485					490						495								
Leu	Ile	Pro	Gly	Leu	Ala	Ser	Gly	Pro	Pro	Asp	Leu	Arg	Cys	Cys	Leu							
		500						505					510									
Leu	His	Gln	Lys	Leu	Gln	Met	Leu	Asn	Cys	Cys	Ile	Glu	Arg	Lys	Lys							
		515					520					525										
Ala	Arg	Asp	Glu	Gly	Lys	Lys	Thr	Ser	Ala	Ser	Asp	Val	Thr	Asn	Ile							
	530					535						540										
Tyr	Pro	Gly	Asp	Ala	Gly	Lys	Ala	Gly	Asp	Gln	Leu	Val	Pro	Asp	Asn							
545				550						555					560							
Leu	Lys	Glu	Thr	Asp	Lys	Glu	Lys	Gly	Glu	Val	Gly	Lys	Ser	Trp	Asp							
			565					570						575								
Ser	Trp	Ser	Asp	Ser	Glu	Glu	Glu	Phe	Phe	Glu	Cys	Leu	Ser	Asp	Thr							
			580					585					590									
Glu	Glu	Leu	Lys	Gly	Asn	Gly	Gln	Glu	Ser	Gly	Lys	Lys	Gly	Gly	Pro							
	595					600						605										
Lys	Glu	Met	Ala	Asn	Leu	Arg	Pro	Glu	Gly	Arg	Leu	Tyr	Gln	His	Gly							

610		615		620
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr				
625		630		635
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu				640
	645		650	655
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala				
660		665		670
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala				
675		680		685
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro				
690		695		700
Arg Asp Tyr Ile Glu Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val				
705		710		715
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp				720
	725		730	735
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg				
740		745		750
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu				
755		760		765
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val				
770		775		780
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Glu Ser Leu Glu Asn				
785		790		795
Ile Ser Ser Val Lys Lys Ile Ile Lys Gln Ile Ile Ser His Ser Ser				800
	805		810	815
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile				
	820		825	830
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser				
835		840		845
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Glu Lys				
850		855		860
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val				
865		870		875
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys				
	885		890	895
Leu Phe Val Asn Ala Gln Arg Ala Ala Ala Met Thr Pro Pro Glu Glu				
900		905		910
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val				
915		920		925
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr				
930		935		940
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr				
945		950		955
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser				
	965		970	975
Asp Thr Ser Phe Phe				
980	981			

<210> 1119

<211> 554

<212> Amino acid

<213> Homo sapiens

<400> 1119

Ser Pro Thr Arg Thr Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu				
1	5	10	15	
Thr Glu Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu				
20	25	30		
Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile				

649

545

550

554

<210> 1120
 <211> 107
 <212>Amino acid
 <213> Homo sapiens

<400> 1120
 Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln
 1 5 10 15
 Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly
 20 25 30
 Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile
 35 40 45
 Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val
 50 55 60
 Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu
 65 70 75 80
 Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro
 85 90 95
 Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe
 100 105 107

<210> 1121
 <211> 1241
 <212>Amino acid
 <213> Homo sapiens

<400> 1121
 Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val
 1 5 10 15
 Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro
 20 25 30
 Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val
 35 40 45
 Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly
 50 55 60
 Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln
 65 70 75 80
 Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu
 85 90 95
 His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val
 100 105 110
 Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met
 115 120 125
 Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu
 130 135 140
 Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr
 145 150 155 160
 Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser
 165 170 175
 Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val
 180 185 190
 Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

195	200	205
Arg Ser Val Gly Arg Ala Arg Asp Gly Thr Thr Phe Pro Leu Ser Leu		
210	215	220
Lys Leu Lys Ser Gln Pro Ser Ser Glu Glu Ala Thr Thr Gly Glu Ala		
225	230	235
Ala Pro Val Ser Gly Tyr Arg Ala Ser Val Trp Val Phe Cys Thr Ile		
	245	250
Ser Gly Leu Ile Thr Leu Leu Pro Asp Gly Thr Ile His Gly Ile Asn		
	260	265
His Ser Phe Ala Leu Thr Leu Phe Gly Tyr Gly Lys Thr Glu Leu Leu		
	275	280
Gly Lys Asn Ile Thr Phe Leu Ile Pro Gly Phe Tyr Ser Tyr Met Asp		
	290	295
Leu Ala Tyr Asn Ser Ser Leu Gln Leu Pro Asp Leu Ala Ser Cys Leu		
305	310	315
Asp Val Gly Asn Glu Ser Gly Cys Gly Glu Arg Thr Leu Asp Pro Trp		
	325	330
Gln Gly Gln Asp Pro Ala Glu Gly Gly Gln Asp Pro Arg Ile Asn Val		
	340	345
Val Leu Ala Gly Gly His Val Val Pro Arg Asp Glu Ile Arg Lys Leu		
	355	360
Met Glu Ser Gln Asp Ile Phe Thr Gly Thr Gln Thr Glu Leu Ile Ala		
	370	375
Gly Gly Gln Leu Leu Ser Cys Leu Ser Pro Gln Pro Ala Pro Gly Val		
385	390	395
Asp Asn Val Pro Glu Gly Ser Leu Pro Val His Gly Glu Gln Ala Leu		
	405	410
Pro Lys Asp Gln Gln Ile Thr Ala Leu Gly Arg Glu Glu Pro Val Ala		
	420	425
Ile Glu Ser Pro Gly Gln Asp Leu Leu Gly Glu Ser Arg Ser Glu Pro		
	435	440
Val Asp Val Lys Pro Phe Ala Ser Cys Glu Asp Ser Glu Ala Pro Val		
	450	455
Pro Ala Glu Asp Gly Gly Ser Asp Ala Gly Met Cys Gly Leu Cys Gln		
465	470	475
Lys Ala Gln Leu Glu Arg Met Gly Val Ser Gly Pro Ser Gly Ser Asp		
	485	490
Leu Trp Ala Gly Ala Ala Val Ala Lys Pro Gln Ala Lys Gly Gln Leu		
	500	505
Ala Gly Gly Ser Leu Leu Met His Cys Pro Cys Tyr Gly Ser Glu Trp		
	515	520
Gly Leu Trp Trp Arg Ser Gln Asp Leu Ala Pro Ser Pro Ser Gly Met		
	530	535
Ala Gly Leu Ser Phe Gly Thr Pro Thr Leu Asp Glu Pro Trp Leu Gly		
545	550	555
Val Glu Asn Asp Arg Glu Glu Leu Gln Thr Cys Leu Ile Lys Glu Gln		
	565	570
Leu Ser Gln Leu Ser Leu Ala Gly Ala Leu Asp Val Pro His Ala Glu		
	580	585
Leu Val Pro Thr Glu Cys Gln Ala Val Thr Ala Pro Val Ser Ser Cys		
	595	600
Asp Leu Gly Gly Arg Asp Leu Cys Gly Gly Cys Thr Gly Ser Ser Ser		
	610	615
Ala Cys Tyr Ala Leu Ala Thr Asp Leu Pro Gly Gly Leu Glu Ala Val		
625	630	635
Glu Ala Gln Glu Val Asp Val Asn Ser Phe Ser Trp Asn Leu Lys Glu		
	645	650
Leu Phe Phe Ser Asp Gln Thr Asp Gln Thr Ser Ser Asn Cys Ser Cys		
	660	665
Ala Thr Ser Glu Leu Arg Glu Thr Pro Ser Ser Leu Ala Val Gly Ser		
	675	680
Asp Pro Asp Val Gly Ser Leu Gln Glu Gln Gly Ser Cys Val Leu Asp		
	690	695
Asp Arg Glu Leu Leu Leu Leu Thr Gly Thr Cys Val Asp Leu Gly Gln		
	700	

705					710					715				720
Gly	Arg	Arg	Phe	Arg	Glu	Ser	Cys	Val	Gly	His	Asp	Pro	Thr	Glu
				725					730					735
Leu	Glu	Val	Cys	Leu	Val	Ser	Ser	Glu	His	Tyr	Ala	Ala	Ser	Asp
			740					745					750	Arg
Glu	Ser	Pro	Gly	His	Val	Pro	Ser	Thr	Leu	Asp	Ala	Gly	Pro	Glu
		755					760					765		Asp
Thr	Cys	Pro	Ser	Ala	Glu	Glu	Pro	Arg	Leu	Asn	Val	Gln	Val	Thr
	770					775					780			Ser
Thr	Pro	Val	Ile	Val	Met	Arg	Gly	Ala	Ala	Gly	Leu	Gln	Arg	Glu
	785					790				795				Ile
Gln	Glu	Gly	Ala	Tyr	Ser	Gly	Ser	Cys	Tyr	His	Arg	Asp	Gly	Leu
				805					810					Arg
Leu	Ser	Ile	Gln	Phe	Glu	Val	Arg	Arg	Val	Glu	Leu	Gln	Gly	Pro
			820					825					830	Thr
Pro	Leu	Phe	Cys	Cys	Trp	Leu	Val	Lys	Asp	Leu	Leu	His	Ser	Gln
		835					840					845		Arg
Asp	Ser	Ala	Ala	Arg	Thr	Arg	Leu	Phe	Leu	Ala	Ser	Leu	Pro	Gly
	850					855					860			Ser
Thr	His	Ser	Thr	Ala	Ala	Glu	Leu	Thr	Gly	Pro	Ser	Leu	Val	Glu
	865				870					875				Val
Leu	Arg	Ala	Arg	Pro	Trp	Phe	Glu	Glu	Pro	Pro	Lys	Ala	Val	Glu
				885					890					Leu
Glu	Gly	Leu	Ala	Ala	Cys	Glu	Gly	Glu	Tyr	Ser	Gln	Lys	Tyr	Ser
			900					905					910	Thr
Met	Ser	Pro	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Phe	Val	Trp	Thr	Ala
		915				920						925		Val
Asp	Lys	Glu	Lys	Asn	Lys	Glu	Val	Val	Val	Lys	Phe	Ile	Lys	Lys
	930					935					940			Glu
Lys	Val	Leu	Glu	Asp	Cys	Trp	Ile	Glu	Asp	Pro	Lys	Leu	Gly	Lys
	945				950					955				Val
Thr	Leu	Glu	Ile	Ala	Ile	Leu	Ser	Arg	Val	Glu	His	Ala	Asn	Ile
				965					970					Ile
Lys	Val	Leu	Asp	Ile	Phe	Glu	Asn	Gln	Gly	Phe	Phe	Gln	Leu	Val
			980					985					990	Met
Glu	Lys	His	Gly	Ser	Gly	Leu	Asp	Leu	Phe	Ala	Phe	Ile	Asp	Arg
	995					1000					1005			His
Pro	Arg	Leu	Asp	Glu	Pro	Leu	Ala	Ser	Tyr	Ile	Phe	Arg	Gln	Val
	1010					1015					1020			Arg
Ala	Gly	Gln	Ser	Arg	Leu	Val	Ser	Ala	Val	Gly	Tyr	Leu	Arg	Leu
	1025				1030					1035				Lys
Asp	Ile	Ile	His	Arg	Asp	Ile	Lys	Asp	Glu	Asn	Ile	Val	Ile	Ala
			1045						1050				1055	Glu
Asp	Phe	Thr	Ile	Lys	Leu	Ile	Asp	Phe	Gly	Ser	Ala	Ala	Tyr	Leu
		1060						1065					1070	Glu
Arg	Gly	Lys	Leu	Phe	Tyr	Thr	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Cys
	1075						1080					1085		Ala
Pro	Glu	Val	Leu	Met	Gly	Asn	Pro	Tyr	Arg	Gly	Pro	Glu	Leu	Glu
	1090					1095					1100			Met
Trp	Ser	Leu	Gly	Val	Thr	Leu	Tyr	Thr	Leu	Val	Phe	Glu	Glu	Asn
	1105				1110					1115			1120	Pro
Phe	Cys	Glu	Leu	Glu	Glu	Thr	Val	Glu	Ala	Ala	Ile	His	Pro	Pro
			1125						1130				1135	Tyr
Leu	Val	Ser	Lys	Glu	Leu	Met	Ser	Leu	Val	Ser	Gly	Leu	Leu	Gln
			1140					1145				1150		Pro
Val	Pro	Glu	Arg	Arg	Thr	Thr	Leu	Glu	Lys	Leu	Val	Thr	Asp	Pro
		1155					1160					1165		Trp
Val	Thr	Gln	Pro	Val	Asn	Leu	Ala	Asp	Tyr	Thr	Trp	Glu	Glu	Val
	1170					1175					1180			Phe
Arg	Val	Asn	Lys	Pro	Glu	Ser	Gly	Val	Leu	Ser	Ala	Ala	Ser	Leu
	1185				1190				1195					Glu
Met	Gly	Asn	Arg	Ser	Leu	Ser	Asp	Val	Ala	Gln	Ala	Gln	Glu	Leu
			1205						1210				1215	Cys
Gly	Gly	Pro	Val	Pro	Gly	Glu	Ala	Pro	Asn	Gly	Gln	Gly	Cys	Leu
														His

1220 1225 1230
 Pro Gly Asp Pro Arg Leu Leu Thr Ser
 1235 1240 1241

<210> 1122
 <211> 395
 <212> Amino acid
 <213> Homo sapiens

<400> 1122
 Pro Gly Thr Ser Ala Ala Thr Cys Arg Phe Leu Ser Pro Pro Val Ile
 1 5 10 15
 Ser Leu Ser Phe Thr Gly Leu Cys Ile Ser Asp Leu Val Val Ala Val
 20 25 30
 Asn Gly Val Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn
 35 40 45
 Phe Phe Ser Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile
 50 55 60
 Tyr Gly Val Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu
 65 70 75 80
 Tyr Leu Ser Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe
 85 90 95
 Ala Phe Leu Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr
 100 105 110
 Phe Ile Val Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu
 115 120 125
 Lys Glu Arg Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro
 130 135 140
 Arg Met Ala Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe
 145 150 155 160
 Ala Ile Val Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys
 165 170 175
 Cys Asn Thr Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr
 180 185 190
 Val Gly Asn Arg Thr Val Val Glu Gly Tyr Tyr Tyr Leu Asn Asn
 195 200 205
 Phe Asp Asn Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val
 210 215 220
 Val Asn Asn Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser
 225 230 235 240
 His Trp Ser Arg Leu Tyr Phe Met Thr Phe Tyr Ile Val Thr Met Val
 245 250 255
 Val Met Thr Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg
 260 265 270
 Met Asn Tyr Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile
 275 280 285
 Thr Leu Glu Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu
 290 295 300
 Leu Tyr Arg Glu Ala Arg Gly Ala Ser Ser Asp Val Thr Arg Leu Leu
 305 310 315 320
 Glu Thr Leu Ser Gln Met Glu Arg Tyr Gln Gln His Ser Met Val Phe
 325 330 335
 Leu Gly Arg Arg Ser Arg Thr Lys Ser Asp Leu Ser Leu Lys Met Tyr
 340 345 350
 Gln Glu Glu Ile Gln Glu Trp Tyr Glu Glu His Ala Arg Glu Gln Glu
 355 360 365
 Gln Gln Arg Gln Leu Ser Ser Ser Ala Ala Pro Ala Gln Gln Pro
 370 375 380
 Pro Gly Ser Arg Gln Arg Ser Gln Thr Val Thr

385

390

395

<210> 1123
 <211> 328
 <212> Amino acid
 <213> Homo sapiens

<400> 1123
 Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu
 1 5 10 15
 Met Ala Ala Gly Gln Asn Gly His Glu Glu Trp Val Gly Ser Ala Tyr
 20 25 30
 Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr
 35 40 45
 Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala
 50 55 60
 Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile
 65 70 75 80
 His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg
 85 90 95
 Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg
 100 105 110
 Ala Ala Leu Gln Arg Ser Leu Ala Ala Ala Leu Ala Gln His Ser Val
 115 120 125
 Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu
 130 135 140
 Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro
 145 150 155 160
 Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg
 165 170 175
 Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala
 180 185 190
 Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro
 195 200 205
 Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro
 210 215 220
 Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg
 225 230 235 240
 Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly
 245 250 255
 Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr
 260 265 270
 Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe
 275 280 285
 Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala
 290 295 300
 Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu
 305 310 315 320
 Thr Asp Pro Asn Gly Gly Leu Ala
 325 328

<210> 1124
 <211> 667
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(667)

<223> X = any amino acid or stop code

<400> 1124

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Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly
 1      5      10      15
Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr
 20      25      30
Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro
 35      40      45
Pro Val Leu Gly Gly Asn Ser Asn Ser Asn Ser Ser Gly Gly Ala Gly
 50      55      60
Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg
 65      70      75      80
Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Gly Ala
 85      90      95
Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe
 100      105      110
Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly
 115      120      125
Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gly Gln Pro Gln Trp
 130      135      140
Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly Gly
 145      150      155      160
Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu
 165      170      175
Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Thr Ala Leu
 180      185      190
Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro
 195      200      205
Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp
 210      215      220
Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr
 225      230      235      240
Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu
 245      250      255
Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser
 260      265      270
Glu Ser Leu Pro Ser Gln Asp Leu Leu Leu Gly Pro Ser Glu Ser Asn
 275      280      285
Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser
 290      295      300
Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp
 305      310      315      320
Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu
 325      330      335
Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro
 340      345      350
Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly
 355      360      365
Glu Pro Glu Gly Gly Glu Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp
 370      375      380
Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr
 385      390      395      400
Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr
 405      410      415
Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys
 420      425      430
His Leu Arg Leu Ser Leu Asn Glu Glu Gly Gln Cys Arg Val Gln His
 435      440      445

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Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His
  450          455          460
Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser
465          470          475          480
Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala
          485          490          495
Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu
          500          505          510
Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala
          515          520          525
Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr
          530          535          540
Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro
545          550          555          560
Pro Gln Pro Gly Glu Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly
          565          570          575
Gln Gln Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala
          580          585          590
Gly Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val
          595          600          605
Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala
          610          615          620
Gln Gly Arg Leu Gly Pro Gly Gly Asp Ala Gly Val Pro Pro Met Val
625          630          635          640
Gln Leu Gln Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly Gly His
          645          650          655
Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val
          660          665          667

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<210> 1125

<211> 387

<212> Amino acid

<213> Homo sapiens

<400> 1125

```

Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile
  1          5          10          15
Arg Arg Leu Pro Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu
          20          25          30
Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu
          35          40          45
Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn
          50          55          60
Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe
          65          70          75          80
Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys
          85          90          95
Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu
          100          105          110
Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu
          115          120          125
Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu
          130          135          140
Glu Lys Arg Glu Glu Arg Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu
          145          150          155          160
Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys
          165          170          175
Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile
          180          185          190

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Lys Leu Leu Lys Lys Pro Glu Lys Gly Glu Glu Pro Thr Thr Glu Lys
 195 200 205
 Pro Lys Glu Arg Gly Glu Glu Ile Asp Thr Gly Gly Gly Lys Gln Glu
 210 215 220
 Ser Cys Ala Pro Gly Ala Val Val Lys Ala Arg Pro Met Glu Gly Ser
 225 230 235 240
 Leu Glu Glu Pro Gln Glu Thr Ser His Ser Gly Ser Asp Lys Glu His
 245 250 255
 Arg Asp Val Glu Arg Ser Gln Glu Gln Glu Ser Glu Ala Gln Arg Tyr
 260 265 270
 His Val Asp Asp Gly Arg Arg His Arg Ala His His Glu Pro Glu Arg
 275 280 285
 Leu Ser Arg Arg Ser Glu Asp Glu Gln Arg Trp Gly Lys Gly Pro Gly
 290 295 300
 Gln Asp Arg Gly Lys Lys Gly Ser Gln Asp Ser Gly Ala Pro Gly Glu
 305 310 315 320
 Ala Met Glu Arg Leu Gly Arg Ala Gln Arg Cys Asp Asp Ser Pro Ala
 325 330 335
 Pro Arg Lys Glu Arg Leu Ala Asn Lys Asp Arg Pro Ala Leu Gln Leu
 340 345 350
 Tyr Asp Pro Gly Ala Arg Phe Arg Ala Arg Glu Cys Gly Gly Asn Arg
 355 360 365
 Arg Ile Cys Lys Ala Glu Gly Ser Gly Thr Gly Pro Glu Lys Arg Glu
 370 375 380
 Glu Ala Glu
 385 387

<210> 1126

<211> 208

<212> Amino acid

<213> Homo sapiens

<400> 1126

Gly Val Trp Gly Val Cys Val Ser Gly Leu Leu Gln Val Gly Ser Gln
 1 5 10 15
 Arg Ala Gln Ala Trp Arg Ala Trp Ser Pro Met Glu Thr Pro Leu Thr
 20 25 30
 Gly Thr Phe Leu Trp Pro His Ile Pro Gln Gly Leu Phe Phe Asp Asp
 35 40 45
 Ser Tyr Gly Phe Tyr Pro Gly Gln Val Leu Ile Gly Pro Ala Lys Ile
 50 55 60
 Phe Ser Ser Val Gln Trp Leu Ser Gly Val Lys Pro Val Leu Ser Thr
 65 70 75 80
 Lys Ser Lys Phe Arg Val Val Val Glu Glu Val Gln Val Val Glu Leu
 85 90 95
 Lys Val Thr Trp Ile Thr Lys Ser Phe Cys Pro Gly Gly Thr Asp Ser
 100 105 110
 Val Ser Pro Pro Pro Ser Val Ile Thr Gln Glu Asn Leu Gly Arg Val
 115 120 125
 Lys Arg Leu Gly Cys Phe Asp His Ala Gln Arg His Ala Trp Gly Ala
 130 135 140
 Leu Ser Val Cys Leu Pro Ser Gln Gly Arg Ala Ser Gln Asp Cys Leu
 145 150 155 160
 Gly Met Ser Arg Lys Lys Leu Arg Pro Gly Gly Gly Leu Tyr Gly Gln
 165 170 175
 Glu Gly Glu Ala Pro Val Glu Glu Ala Gly Cys Ala Asp His Val Met
 180 185 190
 Leu Pro Arg His Pro Val Phe Pro Gly Pro Phe His Gly Arg Pro Arg
 195 200 205 208

<210> 1127
 <211> 670
 <212> Amino acid
 <213> Homo sapiens

<400> 1127
 Phe Arg Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser
 1 5 10 15
 Gly Glu Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys
 20 25 30
 Lys Asp Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro
 35 40 45
 Asp Glu Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln
 50 55 60
 Cys Asp Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys
 65 70 75 80
 Val Asn Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser
 85 90 95
 Gly Glu Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys
 100 105 110
 Arg Asp Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys
 115 120 125
 Leu Asp Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile
 130 135 140
 Gly Tyr Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg
 145 150 155 160
 Arg Cys Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln
 165 170 175
 Leu Cys Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly
 180 185 190
 Phe Gln Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile
 195 200 205
 Ala Tyr Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu
 210 215 220
 Asp Arg Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val
 225 230 235 240
 Ala Leu Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu
 245 250 255
 Ser Gln Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val
 260 265 270
 Ser Ser Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly
 275 280 285
 Leu Ala Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val
 290 295 300
 Leu Gly Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr
 305 310 315 320
 Leu Phe Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro
 325 330 335
 Val His Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile
 340 345 350
 Lys Lys Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu
 355 360 365
 Asn Ile Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg
 370 375 380
 Leu Tyr Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val
 385 390 395 400

Asn Gly Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala
 405 410 415
 His Pro Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp
 420 425 430
 Ile Ile Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp
 435 440 445
 Val Asn Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu
 450 455 460
 Phe His Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr
 465 470 475 480
 Thr Leu Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln
 485 490 495
 Ile Asn Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met
 500 505 510
 Leu Leu Ala Arg Asp Met Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala
 515 520 525
 Val Ala Thr Gln Glu Thr Ser Thr Val Arg Leu Lys Val Ser Ser Thr
 530 535 540
 Ala Val Arg Thr Gln His Thr Thr Thr Arg Pro Val Pro Asp Thr Ser
 545 550 555 560
 Arg Leu Pro Gly Ala Thr Pro Gly Leu Thr Thr Val Glu Ile Val Thr
 565 570 575
 Met Ser His Gln Ala Leu Gly Asp Val Ala Gly Arg Gly Asn Glu Lys
 580 585 590
 Lys Pro Ser Ser Val Arg Ala Leu Ser Ile Val Leu Pro Ile Val Leu
 595 600 605
 Leu Val Phe Leu Cys Leu Gly Val Phe Leu Leu Trp Lys Asn Trp Arg
 610 615 620
 Leu Lys Asn Ile Asn Ser Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys
 625 630 635 640
 Thr Thr Glu Asp Glu Val His Ile Cys His Asn Gln Asp Gly Tyr Ser
 645 650 655
 Tyr Pro Ser Arg Gln Met Val Ser Leu Glu Asp Asp Val Ala
 660 665 670

<210> 1128

<211> 383

<212>Amino acid

<213> Homo sapiens

<400> 1128

Arg Ile Pro Gly Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His
 1 5 10 15
 Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly
 20 25 30
 Pro Arg Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg
 35 40 45
 Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala
 50 55 60
 Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser
 65 70 75 80
 Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met
 85 90 95
 Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met
 100 105 110
 Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu
 115 120 125
 Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu
 130 135 140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu
 145 150 155 160
 Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala
 165 170 175
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys
 180 185 190
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala
 195 200 205
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro
 210 215 220
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn
 225 230 235 240
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala
 245 250 255
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala
 260 265 270
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu
 275 280 285
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser
 290 295 300
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln
 305 310 315 320
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr
 325 330 335
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu
 340 345 350
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu
 355 360 365
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp
 370 375 380 383

<210> 1129

<211> 174

<212> Amino acid

<213> Homo sapiens

<400> 1129

Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg
 1 5 10 15
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr
 20 25 30
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro
 35 40 45
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp
 50 55 60
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro
 65 70 75 80
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly
 85 90 95
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys
 100 105 110
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met
 115 120 125
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu
 130 135 140
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro
 145 150 155 160
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Glu Ala
 165 170 174

<210> 1130
 <211> 231
 <212>Amino acid
 <213> Homo sapiens

<400> 1130
 Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe
 1 5 10 15
 Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Thr Phe Leu Gly Gly
 20 25 30
 Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe
 35 40 45
 Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser
 50 55 60
 Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly
 65 70 75 80
 Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn
 85 90 95
 Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser
 100 105 110
 Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala
 115 120 125
 Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr
 130 135 140
 Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro
 145 150 155 160
 Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val
 165 170 175
 Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg
 180 185 190
 Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His
 195 200 205
 Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn
 210 215 220
 Gly Asn Ser Thr Met Cys Pro
 225 230 231

<210> 1131
 <211> 234
 <212>Amino acid
 <213> Homo sapiens

<400> 1131
 Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg
 1 5 10 15
 Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu
 20 25 30
 Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly
 35 40 45
 Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala
 50 55 60
 Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys
 65 70 75 80

```

Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile
      85                      90                      95
Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe
      100                    105                    110
Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg
      115                    120                    125
Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr
      130                    135                    140
Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu
      145                    150                    155                    160
Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln
      165                    170                    175
Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu
      180                    185                    190
Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala
      195                    200                    205
Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val
      210                    215                    220
Ala Ser Thr Thr Ser Ser Ser Glu Ser Leu
      225                    230                    234

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<210> 1132
<211> 270
<212> Amino acid
<213> Homo sapiens

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<400> 1132
Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser
  1      5                      10                      15
Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser
      20                    25                    30
Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val
      35                    40                    45
Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile
      50                    55                    60
Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr
      65                    70                    75                    80
Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln
      85                    90                    95
Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met
      100                    105                    110
Asp Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg
      115                    120                    125
Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys
      130                    135                    140
Val Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu
      145                    150                    155                    160
Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser
      165                    170                    175
Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile
      180                    185                    190
Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu
      195                    200                    205
Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
      210                    215                    220
Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
      225                    230                    235                    240
Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
      245                    250                    255

```

Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp
 260 265 270

<210> 1133

<211> 204

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(204)

<223> X = any amino acid or stop code

<400> 1133

```

Pro Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys
 1           5           10           15
Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Arg Thr
           20           25           30
Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser
           35           40           45
Ala Pro Val Val Phe Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met
           50           55           60
Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr
           65           70           75           80
Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr
           85           90           95
Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly
           100          105          110
Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu
           115          120          125
Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro
           130          135          140
Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser
           145          150          155          160
Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr
           165          170          175
Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu
           180          185          190
Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly
           195          200          204

```

<210> 1134

<211> 531

<212>Amino acid

<213> Homo sapiens

<400> 1134

```

Arg Ala Cys Val Phe Arg Pro Glu Asp Met Met Gln Gly Glu Ala His
 1           5           10           15
Pro Ser Ala Ser Leu Ile Asp Arg Thr Ile Lys Met Arg Lys Glu Thr
           20           25           30
Glu Ala Arg Lys Val Val Leu Ala Trp Gly Leu Leu Asn Val Ser Met
           35           40           45
Ala Gly Met Ile Tyr Thr Glu Met Thr Gly Lys Leu Ile Ser Ser Tyr

```

50	55	60
Tyr Asn Val Thr Tyr Trp Pro Leu Trp Tyr Ile Glu Leu Ala Leu Ala		
65	70	75
Ser Leu Phe Ser Leu Asn Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys		80
	85	90
Tyr Thr Val Ala Pro Thr Ser Leu Val Val Ser Pro Gly Gln Gln Thr		95
	100	105
Leu Leu Gly Leu Lys Thr Ala Val Val Gln Thr Thr Pro Pro His Asp		110
	115	120
Leu Ala Ala Thr Gln Ile Pro Pro Ala Pro Pro Ser Ser Ile Gln		125
	130	135
Gly Gln Ser Val Leu Ser Tyr Ser Pro Ser Arg Ser Pro Ser Thr Ser		140
145	150	155
Pro Lys Phe Thr Thr Ser Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln		160
	165	170
Gly Leu Ser Ser Gly Gly Ser Gly Ser Tyr Ser Pro Gly Val Thr Tyr		175
	180	185
Ser Pro Val Ser Gly Tyr Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro		190
	195	200
Pro Ser Pro Tyr Pro Thr Thr Val Gly Pro Val Glu Ser Ser Gly Leu		205
	210	215
Arg Ser Arg Tyr Arg Ser Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp		220
225	230	235
Lys Glu Asp Tyr Met Thr Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg		240
	245	250
Ser Glu Glu Glu Lys Gln His Arg Val Lys Leu Gly Ser Pro Asp Ser		255
	260	265
Thr Ser Pro Ser Ser Ser Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met		270
	275	280
Gly Asp Tyr Ala Gln Thr Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys		285
	290	295
Arg Ser Gln Ala Pro Cys Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser		300
305	310	315
Lys Gln Ala Ala Glu Glu Val Trp Ala Arg Val Ala Met Asn Arg Gln		320
	325	330
Leu Leu Asp His Met Asp Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile		335
	340	345
Asn Glu Thr Ile Leu Val Pro Leu Val Gln Glu Ile Glu Ser Val Ser		350
	355	360
Thr Gln Met Arg Arg Met Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala		365
	370	375
Ser Ile Thr Ser Leu Lys Gln Ala Ala Leu Val Lys Ala Pro Leu Ile		380
385	390	395
Pro Thr Leu Asn Thr Ile Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln		400
	405	410
Glu Tyr Leu Phe Glu Arg Ile Lys Glu Leu Ser Gln Gly Gly Cys Met		415
	420	425
Ser Ser Phe Arg Trp Asn Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp		430
	435	440
Asp Thr Asp Leu Pro Thr Asp Ser Ala Ile Ile Met His Val Phe Cys		445
	450	455
Thr Tyr Leu Asp Ser Arg Leu Pro Pro His Pro Lys Tyr Pro Asp Gly		460
465	470	475
Lys Thr Phe Thr Ser Gln His Phe Val Gln Thr Pro Asn Lys Pro Asp		480
	485	490
Val Thr Asn Glu Asn Val Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro		495
	500	505
Pro His Tyr Glu Leu Ile Tyr Gln Arg His Val Tyr Ile Pro Ala Lys		510
	515	520
Gly Gln Lys		525
530 531		

<210> 1135

<211> 508
 <212> Amino acid
 <213> Homo sapiens

<400> 1135
 Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val
 1 5 10 15
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser
 20 25 30
 Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu
 35 40 45
 Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser
 50 55 60
 Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr
 65 70 75 80
 Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg
 85 90 95
 Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val
 100 105 110
 Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg
 115 120 125
 Lys Arg Glu Ala Glu Glu Arg Arg Phe Pro Leu Glu Gln Arg Leu
 130 135 140
 Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala
 145 150 155 160
 Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu
 165 170 175
 Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala
 180 185 190
 Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile
 195 200 205
 Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe
 210 215 220
 Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu
 225 230 235 240
 Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu
 245 250 255
 Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe
 260 265 270
 Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys
 275 280 285
 Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala
 290 295 300
 Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn
 305 310 315 320
 Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr
 325 330 335
 Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala
 340 345 350
 His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr
 355 360 365
 Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu
 370 375 380
 Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu
 385 390 395 400
 Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val
 405 410 415
 His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly
 420 425 430
 Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

```

      435      440      445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser
  450      455      460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg
465      470      475      480
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg
      485      490      495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile
      500      505      508

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<210> 1136
<211> 81
<212>Amino acid
<213> Homo sapiens

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```

<400> 1136
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly
  1      5      10      15
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala
      20      25      30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr
      35      40      45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly
      50      55      60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Leu Ser Ala Asn Gln
      65      70      75      80
Gly
      81

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<210> 1137
<211> 260
<212>Amino acid
<213> Homo sapiens

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```

<400> 1137
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr
  1      5      10      15
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
      20      25      30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
      35      40      45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
      50      55      60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
      65      70      75      80
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
      85      90      95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
      100      105      110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
      115      120      125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile
      130      135      140
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys

```

```

145          150          155          160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
          165          170          175
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
          180          185          190
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
          195          200          205
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
          210          215          220
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
225          230          235          240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
          245          250          255
Lys Leu Tyr Asn
          260

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<210> 1138
<211> 393
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1138
Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met
 1          5          10          15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala
          20          25          30
Ala Ala Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Glu
          35          40          45
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp
          50          55          60
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Gln Leu Gln Glu Glu Glu
          65          70          75          80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln
          85          90          95
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg
          100          105          110
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu
          115          120          125
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu
          130          135          140
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val
145          150          155          160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val
          165          170          175
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn
          180          185          190
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His
          195          200          205
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala
          210          215          220
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu
225          230          235          240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser
          245          250          255
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile
          260          265          270
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala
          275          280          285
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Ser Val Leu Pro Pro Ser

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```

      290              295              300
Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys
305              310              315              320
Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro
      325              330              335
Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu
      340              345              350
Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg
      355              360              365
Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro
      370              375              380
Ala Arg Lys Val Lys Met Arg Arg His
385              390              393

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<210> 1139
<211> 545
<212>Amino acid
<213> Homo sapiens

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      <400> 1139
Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr
  1              5              10              15
Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln
      20              25              30
Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln
      35              40              45
Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp
      50              55              60
Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn
      65              70              75              80
His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val
      85              90              95
Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala
      100             105             110
Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser
      115             120             125
Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp
      130             135             140
Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His
      145             150             155             160
Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu
      165             170             175
Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser
      180             185             190
Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu
      195             200             205
Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys
      210             215             220
Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His
      225             230             235             240
Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg
      245             250             255
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala
      260             265             270
Glu His Thr Pro Met Ala Pro Gly Gly Ser Thr His Arg Arg Asp Arg
      275             280             285
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly
      290             295             300
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser

```


305 310 315 320
 Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
 325 330 335
 Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
 340 345 350
 Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
 355 360 365
 Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
 370 375 380
 Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
 385 390 395 400
 Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
 405 410 415
 Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
 420 425 430
 Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
 435 440 445
 Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
 450 455 460
 Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
 465 470 475 480
 Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
 485 490 495
 Gln Ser Glu Cys Arg Lys Thr Val Pro Glu Pro Gly Ala Pro Val
 500 505 510
 Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
 515 520 525
 Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
 530 535 540
 Gln
 545

<210> 1140
 <211> 621
 <212> Amino acid
 <213> Homo sapiens

<400> 1140
 Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
 1 5 10 15
 Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
 20 25 30
 Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
 35 40 45
 Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
 50 55 60
 Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
 65 70 75 80
 Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
 85 90 95
 Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
 100 105 110
 Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
 115 120 125
 Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
 130 135 140
 Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
 145 150 155 160
 Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

```
<210> 1141
<211> 154
<212> Amino acid
<213> Homo sapiens
```

<400> 1141

```

Ala Gln Val Tyr Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg
 1          5          10          15
Pro Ser Gly Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val
          20          25          30
His Ser Asn Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile
          35          40          45
Gln Ser Ala Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His
 50          55          60
Met Val Pro Ile Val His His Val Lys Glu His His Phe Gly Ser Ser
 65          70          75          80
Gly Met Thr Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr
          85          90          95
Glu Gln Glu Ala Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg
          100          105          110
Ile Asp Ile Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp
          115          120          125
Glu Met Lys Ser Pro Arg Glu Pro Gly Tyr Lys Asp Gly His Asn Ser
          130          135          140
Lys Asn Glu Leu Gln Arg Val Asn Phe Tyr
145          150          154

```

<210> 1142

<211> 121

<212>Amino acid

<213> Homo sapiens

<400> 1142

```

Thr Tyr Thr Phe Cys Phe Ser Leu Met Ile Ile Leu Leu Thr Ile Ile
 1          5          10          15
Gln Gly Leu Ile Leu Glu Ala Phe Gly Glu Leu Arg Asp Gln Leu Asp
          20          25          30
Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly
          35          40          45
Asn Asp Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu
 50          55          60
Gln Glu His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile
 65          70          75          80
Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys
          85          90          95
Met Tyr Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe
          100          105          110
Arg Lys Gln Tyr Glu Asp Gln Leu Asn
          115          120 121

```

<210> 1143

<211> 851

<212>Amino acid

<213> Homo sapiens

<400> 1143

Phe	Arg	Arg	Lys	Gly	Gly	Gly	Gly	Pro	Lys	Asp	Phe	Gly	Ala	Gly	Leu	1	5	10	15
Lys	Tyr	Asn	Ser	Arg	His	Glu	Lys	Val	Asn	Gly	Leu	Glu	Glu	Gly	Val	20	25	30	
Glu	Phe	Leu	Pro	Val	Asn	Asn	Val	Lys	Lys	Val	Glu	Lys	His	Gly	Pro	35	40	45	
Gly	Arg	Trp	Val	Val	Leu	Ala	Ala	Val	Leu	Ile	Gly	Leu	Leu	Leu	Val	50	55	60	
Leu	Leu	Gly	Ile	Gly	Phe	Leu	Val	Trp	His	Leu	Gln	Tyr	Arg	Asp	Val	65	70	75	80
Arg	Val	Gln	Lys	Val	Phe	Asn	Gly	Tyr	Met	Arg	Ile	Thr	Asn	Glu	Asn	85	90	95	
Phe	Val	Asp	Ala	Tyr	Glu	Asn	Ser	Asn	Ser	Thr	Glu	Phe	Val	Ser	Leu	100	105	110	
Ala	Ser	Lys	Val	Lys	Asp	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	115	120	125	
Phe	Leu	Gly	Pro	Tyr	His	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	130	135	140	
Gly	Ser	Val	Ile	Ala	Tyr	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	145	150	155	160
Leu	Val	Glu	Glu	Ala	Glu	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met	165	170	175	
Leu	Pro	Pro	Arg	Ala	Arg	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val	180	185	190	
Val	Ala	Phe	Pro	Thr	Asp	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn	195	200	205	
Ser	Cys	Ser	Phe	Gly	Leu	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe	210	215	220	
Thr	Thr	Pro	Gly	Phe	Pro	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg	Cys	225	230	235	240
Gln	Trp	Ala	Leu	Arg	Gly	Asp	Ala	Asp	Ser	Val	Leu	Ser	Leu	Thr	Phe	245	250	255	
Arg	Ser	Phe	Asp	Leu	Ala	Ser	Cys	Asp	Glu	Arg	Gly	Arg	His	Leu	Val	260	265	270	
Thr	Val	Tyr	Asn	Thr	Leu	Ser	Pro	Met	Glu	Pro	His	Ala	Leu	Val	Gln	275	280	285	
Leu	Cys	Gly	Thr	Tyr	Pro	Pro	Ser	Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser	290	295	300	
Gln	Asn	Val	Leu	Leu	Ile	Thr	Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His	305	310	315	320
Pro	Gly	Phe	Glu	Ala	Thr	Phe	Phe	Gln	Leu	Pro	Arg	Met	Ser	Ser	Cys	325	330	335	
Gly	Gly	Arg	Leu	Arg	Lys	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr	340	345	350	
Pro	Gly	His	Tyr	Pro	Pro	Asn	Ile	Asp	Cys	Thr	Trp	Asn	Ile	Glu	Val	355	360	365	
Pro	Asn	Asn	Gln	His	Val	Lys	Val	Arg	Phe	Lys	Phe	Phe	Tyr	Leu	Leu	370	375	380	
Glu	Pro	Gly	Val	Pro	Ala	Gly	Thr	Cys	Pro	Lys	Asp	Tyr	Val	Glu	Ile	385	390	395	400
Asn	Gly	Glu	Lys	Tyr	Cys	Gly	Glu	Arg	Ser	Gln	Phe	Val	Val	Thr	Ser	405	410	415	
Asn	Ser	Asn	Lys	Ile	Thr	Val	Arg	Phe	His	Ser	Asp	Gln	Ser	Tyr	Thr	420	425	430	
Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp	Ser	Ser	Asp	Pro	435	440	445	
Cys	Pro	Gly	Gln	Phe	Thr	Cys	Arg	Thr	Gly	Arg	Cys	Ile	Arg	Lys	Glu	450	455	460	
Leu	Arg	Cys	Asp	Gly	Trp	Ala	Asp	Cys	Thr	Asp	His	Ser	Asp	Glu	Leu	465	470	475	480
Asn	Cys	Ser	Cys	Asp	Ala	Gly	His	Gln	Phe	Thr	Cys	Lys	Asn	Lys	Phe	485	490	495	
Cys	Lys	Pro	Leu	Phe	Trp	Val	Cys	Asp	Ser	Leu	Asn	Asp	Cys	Gly	Asp				

```

      500      505      510
Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys
      515      520      525
Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp
      530      535      540
Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val
545      550      555      560
Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu
      565      570      575
Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly
      580      585      590
Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln
      595      600      605
Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp
610      615      620
Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser
625      630      635      640
Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
      645      650      655
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu
      660      665      670
Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg
675      680      685
Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe
690      695      700
Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser
705      710      715      720
Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro
      725      730      735
Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly
740      745      750
Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn
755      760      765
Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met
770      775      780
Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp
785      790      795      800
Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln
      805      810      815
Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro
820      825      830
Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn
835      840      845
Thr Gly Val
850 851

```

<210> 1144

<211> 346

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> X = any amino acid or stop code

<400> 1144

```

Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr
  1              5              10              15

```

```

Asp Cys Ser Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser
      20      25      30
Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu
      35      40      45
Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro
      50      55      60
Glu Val Phe Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro
      65      70      75      80
Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr
      85      90      95
Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn
      100      105      110
Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His
      115      120      125
Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys
      130      135      140
Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser
      145      150      155      160
Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile
      165      170      175
Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser
      180      185      190
Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser
      195      200      205
Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser
      210      215      220
Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala
      225      230      235      240
Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu
      245      250      255
Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe
      260      265      270
Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp
      275      280      285
Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr Ala Leu Glu
      290      295      300
Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val
      305      310      315      320
Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg
      325      330      335
Thr Val Glu Ser Thr Ser His Arg Leu Tyr
      340      345      346

```

<210> 1145

<211> 339

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(339)

<223> X = any amino acid or stop code

<400> 1145

```

Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val
  1      5      10      15
Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly
      20      25      30
Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

```

```

      35      40      45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro
  50      55      60
Gly Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln
  65      70      75      80
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg
      85      90      95
Trp Arg Leu Xaa Ala Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr
  100      105      110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu
  115      120      125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His
  130      135      140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala
  145      150      155      160
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu
      165      170      175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg
  180      185      190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala
  195      200      205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His
  210      215      220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu
  225      230      235      240
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe
      245      250      255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile
  260      265      270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys
  275      280      285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln
  290      295      300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu Glu
  305      310      315      320
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser
      325      330      335
Lys Pro Gln
  339

```

<210> 1146

<211> 425

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(425)

<223> X = any amino acid or stop code

<400> 1146

```

Ala Ala Ala Leu Val Ala Glu Tyr Leu Ala Leu Leu Glu Asp His Arg
  1      5      10      15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val
  20      25      30
Leu Glu Glu Ser Ala Ile Ser Asp Asp Ile Leu Ser Pro Asp Glu Glu
  35      40      45
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu
  50      55      60

```

```

Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala
65          70          75          80
Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg
85          90          95
Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe
100         105         110
Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr
115         120         125
Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu
130         135         140
Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile
145         150         155         160
Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val
165         170         175
Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp
180         185         190
Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp
195         200         205
Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly
210         215         220
Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala
225         230         235         240
His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr
245         250         255
Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg
260         265         270
Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln
275         280         285
Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp
290         295         300
Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val
305         310         315         320
Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro
325         330         335
Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe
340         345         350
Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala
355         360         365
Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn
370         375         380
Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu
385         390         395         400
Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn
405         410         415
Arg Ala Ser Phe Arg Lys Ala Asp Leu
420         425

```

<210> 1147

<211> 198

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(198)

<223> X = any amino acid or stop code

<400> 1147

```

Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

```


1	5	10	15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala			
20	25	30	
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg			
35	40	45	
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ser Ala Asp His			
50	55	60	
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu			
65	70	75	80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe			
85	90	95	
Gly Gly Ala Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu			
100	105	110	
His Gly Glu Gly Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro			
115	120	125	
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala			
130	135	140	
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys			
145	150	155	160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile			
165	170	175	
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg			
180	185	190	
Gly Gln Gly Arg Asn Leu			
195	198		

<210> 1148

<211> 317

<212> Amino acid

<213> Homo sapiens

<400> 1148

Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala			
1	5	10	15
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg			
20	25	30	
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr			
35	40	45	
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu			
50	55	60	
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu			
65	70	75	80
Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser Val Asp Ser Trp			
85	90	95	
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly			
100	105	110	
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg			
115	120	125	
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys			
130	135	140	
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu			
145	150	155	160
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu			
165	170	175	
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro			
180	185	190	
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly			
195	200	205	
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu			

210	215	220
Gln Ala Ser Val	Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp	
225	230	235
Ala Tyr Gln Gly	Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro	240
	245	250
Glu Gly Gly Val	Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met	255
	260	265
Tyr Gln Ser Asp	Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr	270
	275	280
Gly Cys Gly Gly	Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala	285
	290	295
Tyr Leu Asn Trp	Ile Tyr Asn Val Trp Lys Ala Glu Leu	300
305	310	315
		317

<210> 1149

<211> 320

<212> Amino acid

<213> Homo sapiens

<400> 1149

Thr Ile Ser Thr	Val Arg Trp Asn Ser Arg Ile Gly Met Val Leu Gly
1	5 10 15
Val Ala Ile Gln	Lys Arg Ala Val Pro Gly Leu Tyr Ala Phe Glu Glu
	20 25 30
Ala Tyr Ala Arg	Ala Asp Lys Glu Ala Pro Arg Pro Cys His Lys Gly
	35 40 45
Ser Trp Cys Ser	Ser Asn Gln Leu Cys Arg Glu Cys Gln Ala Phe Met
	50 55 60
Ala His Thr Met	Pro Lys Leu Lys Ala Phe Ser Met Ser Ser Ala Tyr
	65 70 75 80
Asn Ala Tyr Arg	Ala Val Tyr Ala Val Ala His Gly Leu His Gln Leu
	85 90 95
Leu Gly Cys Ala	Ser Gly Ala Cys Ser Arg Gly Arg Val Tyr Pro Trp
	100 105 110
Gln Leu Leu Glu	Gln Ile His Lys Val His Phe Leu Leu His Lys Asp
	115 120 125
Thr Val Ala Phe	Asn Asp Asn Arg Asp Pro Leu Ser Ser Tyr Asn Ile
	130 135 140
Ile Ala Trp Asp	Trp Asn Gly Pro Lys Trp Thr Phe Thr Val Leu Gly
	145 150 155 160
Ser Ser Thr Trp	Ser Pro Val Gln Leu Asn Ile Asn Glu Thr Lys Ile
	165 170 175
Gln Trp His Gly	Lys Asp Asn Gln Val Pro Lys Ser Val Cys Ser Ser
	180 185 190
Asp Cys Leu Glu	Gly His Gln Arg Val Val Thr Gly Phe His His Cys
	195 200 205
Cys Phe Glu Cys	Val Pro Cys Gly Ala Gly Thr Phe Leu Asn Lys Ser
	210 215 220
Ser Tyr Leu Gly	Lys Asp Leu Pro Glu Asn Tyr Asn Glu Ala Lys Cys
	225 230 235 240
Val Thr Phe Ser	Leu Leu Phe Asn Phe Val Ser Trp Ile Ala Phe Phe
	245 250 255
Thr Thr Ala Ser	Val Tyr Asp Gly Lys Tyr Leu Pro Ala Ala Asn Met
	260 265 270
Met Ala Gly Leu	Ser Ser Leu Ser Ser Gly Phe Gly Gly Tyr Phe Leu
	275 280 285
Pro Lys Cys Tyr	Val Ile Leu Cys Arg Pro Asp Leu Asn Ser Thr Glu
	290 295 300
His Phe Gln Ala	Ser Ile Gln Asp Tyr Thr Arg Arg Cys Gly Ser Thr

305

310

315

320

<210> 1150
 <211> 458
 <212> Amino acid
 <213> Homo sapiens

<400> 1150
 Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser
 1 5 10 15
 Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser
 20 25 30
 Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu
 35 40 45
 His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala
 50 55 60
 Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile
 65 70 75 80
 Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln
 85 90 95
 Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro
 100 105 110
 Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr
 115 120 125
 Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe
 130 135 140
 Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys
 145 150 155 160
 Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu
 165 170 175
 Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn
 180 185 190
 Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser
 195 200 205
 Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe
 210 215 220
 Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val
 225 230 235 240
 Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val
 245 250 255
 Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn
 260 265 270
 Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala
 275 280 285
 Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln
 290 295 300
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu
 305 310 315 320
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu
 325 330 335
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His
 340 345 350
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu
 355 360 365
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser
 370 375 380
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

```
<210> 1151
<211> 608
<212> Amino acid
<213> Homo sapiens
```

680

```
<210> 1152
<211> 111
<212>Amino acid
<213> Homo sapiens
```

<210> 1153

<211> 444
 <212> Amino acid
 <213> Homo sapiens

<400> 1153
 Met Ser Leu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val
 1 5 10 15
 Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser
 20 25 30
 Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg
 35 40 45
 Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp
 50 55 60
 Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe
 65 70 75 80
 Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg
 85 90 95
 Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro
 100 105 110
 Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala
 115 120 125
 His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys
 130 135 140
 Trp Ser Asp Ile Met Phe Glu His Phe Phe Leu His Lys Glu Gly Ile
 145 150 155 160
 Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser
 165 170 175
 Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr
 180 185 190
 Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala
 195 200 205
 Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro
 210 215 220
 Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val
 225 230 235 240
 Thr Leu Ser Cys Ser Ser Arg Ser Ser Tyr Asp Met Tyr His Leu Ser
 245 250 255
 Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val
 260 265 270
 Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly
 275 280 285
 Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp
 290 295 300
 Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser
 305 310 315 320
 Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro
 325 330 335
 Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe
 340 345 350
 Ile Leu Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys
 355 360 365
 Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn
 370 375 380
 Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln
 385 390 395 400
 Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln
 405 410 415
 Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro
 420 425 430
 Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

435

440

444

<210> 1154
 <211> 522
 <212> Amino acid
 <213> Homo sapiens

<400> 1154

```

Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val
 1          5          10          15
Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr
          20          25          30
Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala
          35          40          45
Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly
          50          55          60
Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile
          65          70          75          80
Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn
          85          90          95
Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser
          100          105          110
Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys
          115          120          125
Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu
          130          135          140
Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala
          145          150          155          160
Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe
          165          170          175
Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala
          180          185          190
Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro
          195          200          205
Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr
          210          215          220
Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu
          225          230          235          240
Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn
          245          250          255
Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val
          260          265          270
Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn
          275          280          285
Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu
          290          295          300
Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp
          305          310          315          320
Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Leu Glu Pro Asp Lys Glu
          325          330          335
Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser
          340          345          350
Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys
          355          360          365
Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn
          370          375          380
Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe
          385          390          395          400
Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Leu Tyr

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          405          410          415
Leu Tyr Leu Thr Pro Cys Pro Cys Lys Cys Lys Thr Lys Arg Gln Lys
          420          425          430
Asn Met Leu His Gln Ser Asn Ala His Ser Ser Ile Leu Ser Pro Gly
          435          440          445
Pro Ala Ser Asp Ala Ser Ala Asp Glu Arg Lys Ala Gly Ala Gly Lys
          450          455          460
Arg Val Val Phe Leu Glu Pro Leu Lys Asp Thr Ala Ala Gly Gln Asn
          465          470          475          480
Gly Lys Val Arg Leu Phe Pro Ser Glu Ala Val Ile Ala Glu Gly Ile
          485          490          495
Leu Lys Ser Thr Arg Gly Lys Ser Asp Ser Asp Ser Val Asn Ser Val
          500          505          510
Phe Ser Asp Thr Pro Phe Val Ala Ser Thr
          515          520          522

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<210> 1155
<211> 642
<212> Amino acid
<213> Homo sapiens

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<400> 1155
Ala Ser Asp Phe Ile Arg Ser Leu Asp His Cys Gly Tyr Leu Ser Leu
  1          5          10          15
Glu Gly Val Phe Ser His Lys Phe Asp Phe Glu Leu Gln Asp Val Ser
          20          25          30
Ser Val Asn Glu Asp Val Leu Leu Thr Thr Gly Leu Leu Cys Lys Tyr
          35          40          45
Thr Ala Gln Arg Phe Lys Pro Lys Tyr Lys Phe Phe His Lys Ser Phe
          50          55          60
Gln Glu Tyr Thr Ala Gly Arg Arg Leu Ser Ser Leu Leu Thr Ser His
          65          70          75          80
Glu Pro Glu Glu Val Thr Lys Gly Asn Gly Tyr Leu Gln Lys Met Val
          85          90          95
Ser Ile Ser Asp Ile Thr Ser Thr Tyr Ser Ser Leu Leu Arg Tyr Thr
          100          105          110
Cys Gly Ser Ser Val Glu Ala Thr Arg Ala Val Met Lys His Leu Ala
          115          120          125
Ala Val Tyr Gln His Gly Cys Leu Leu Gly Leu Ser Ile Ala Lys Arg
          130          135          140
Pro Leu Trp Arg Gln Glu Ser Leu Gln Ser Val Lys Asn Thr Thr Glu
          145          150          155          160
Gln Glu Ile Leu Lys Ala Ile Asn Ile Asn Ser Phe Val Glu Cys Gly
          165          170          175
Ile His Leu Tyr Gln Glu Ser Thr Ser Lys Ser Ala Leu Ser Gln Glu
          180          185          190
Phe Glu Ala Phe Phe Gln Gly Lys Ser Leu Tyr Ile Asn Ser Gly Asn
          195          200          205
Ile Pro Asp Tyr Leu Phe Asp Phe Phe Glu His Leu Pro Asn Cys Ala
          210          215          220
Ser Ala Leu Asp Phe Ile Lys Leu Gly Phe Tyr Gly Gly Ala Met Ala
          225          230          235          240
Ser Trp Glu Lys Ala Ala Glu Asp Thr Gly Gly Ile His Met Glu Glu
          245          250          255
Ala Pro Glu Thr Tyr Ile Pro Ser Arg Ala Val Ser Leu Phe Phe Asn
          260          265          270
Trp Lys Gln Glu Phe Arg Thr Leu Glu Val Thr Leu Arg Asp Phe Ser
          275          280          285
Lys Leu Asn Lys Gln Asp Ile Arg Tyr Leu Gly Lys Ile Phe Ser Ser

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      290      295      300
Ala Thr Ser Leu Arg Leu Gln Ile Lys Arg Cys Ala Gly Val Ala Gly
305      310      315      320
Ser Leu Ser Leu Val Leu Ser Thr Cys Lys Asn Ile Tyr Ser Leu Met
      325      330      335
Val Glu Ala Ser Pro Leu Thr Ile Glu Asp Glu Arg His Ile Thr Ser
      340      345      350
Val Thr Asn Leu Lys Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg
      355      360      365
Leu Pro Gly Gly Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr
      370      375      380
Lys Leu Ile Met Asp Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys
385      390      395      400
Leu Ala Glu Gly Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu
      405      410      415
Thr His Leu Ser Asp Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser
      420      425      430
Leu Ser Ser Glu Pro Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys
      435      440      445
Cys Leu Ser Ala Asn Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn
      450      455      460
Leu Val Lys Leu Ser Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys
465      470      475      480
Asp Gly Asn Glu Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu
      485      490      495
Glu Gln Leu Thr Ala Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly
      500      505      510
Ser Leu Ser Ser Leu Leu Lys His Leu Glu Glu Val Pro Gln Leu Val
      515      520      525
Lys Leu Gly Leu Lys Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile
      530      535      540
Leu Gly Ala Phe Phe Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu
545      550      555      560
Asn Leu Ala Gly Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met
      565      570      575
Gly Val Phe Glu Asn Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr
      580      585      590
Lys Glu Phe Leu Pro Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val
      595      600      605
Leu Ser Lys Leu Thr Phe Leu Gln Glu Ala Arg Leu Val Gly Trp Gln
      610      615      620
Phe Asp Asp Asp Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val
625      630      635      640
Thr Ala
      642

```

<210> 1156

<211> 125

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> X = any amino acid or stop code

<400> 1156

```

Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg
1          5          10          15

```

```

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg
      20      25      30
Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro
      35      40      45
Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
      50      55      60
Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val
      65      70      75      80
Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln
      85      90      95
Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln
      100      105      110
Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly
      115      120      125

```

<210> 1157

<211> 91

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(91)

<223> X = any amino acid or stop code

<400> 1157

```

Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg
  1      5      10      15
Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe
      20      25      30
Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile
      35      40      45
Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg
      50      55      60
Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala
      65      70      75      80
Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu
      85      90      91

```

<210> 1158

<211> 254

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(254)

<223> X = any amino acid or stop code

<400> 1158

```

Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe
  1      5      10      15
Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys
      20      25      30

```

Gly Ser Leu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu
 35 40 45
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met
 50 55 60
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly
 65 70 75 80
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu
 85 90 95
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val
 100 105 110
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg
 115 120 125
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp
 130 135 140
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser
 145 150 155 160
 Leu Ala Ile Xaa His Pro Phe Glu Gly Ala Ser Val Arg Asn Lys Ala
 165 170 175
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile
 180 185 190
 Ser Gly Val Gln Lys Ser Lys Lys Asn Gly Pro Ile Asp Trp Glu Trp
 195 200 205
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Ser Gly Val Leu Arg Val
 210 215 220
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg
 225 230 235 240
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn
 245 250 254

<210> 1159

<211> 162

<212> Amino acid

<213> Homo sapiens

<400> 1159

Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala
 1 5 10 15
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr
 20 25 30
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro
 35 40 45
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln
 50 55 60
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu
 65 70 75 80
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile
 85 90 95
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu
 100 105 110
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu
 115 120 125
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met
 130 135 140
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr
 145 150 155 160
 Val His
 162

<210> 1160
 <211> 295
 <212>Amino acid
 <213> Homo sapiens

<400> 1160
 His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu
 1 5 10 15
 Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp
 20 25 30
 Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu
 35 40 45
 Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys
 50 55 60
 Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg
 65 70 75 80
 Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser
 85 90 95
 Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg
 100 105 110
 Val Gly Asp Phe Asn Glu Ser Thr Tyr Tyr Met Glu Gly Asn Leu Gly
 115 120 125
 His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys
 130 135 140
 Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly
 145 150 155 160
 Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu
 165 170 175
 Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys
 180 185 190
 Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu
 195 200 205
 Phe Thr Ser Gly Asp Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe
 210 215 220
 Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly
 225 230 235 240
 Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn
 245 250 255
 Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg
 260 265 270
 Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr
 275 280 285
 Ser Pro Thr Ile Val Lys Glu
 290 295

<210> 1161
 <211> 1621
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1621)
 <223> X = any amino acid or stop code

<400> 1161

Met	Ala	Lys	Ser	Gly	Gly	Cys	Gly	Ala	Gly	Ala	Gly	Val	Gly	Gly	Gly	1	5	10	15
Asn	Gly	Ala	Leu	Thr	Trp	Val	Asn	Asn	Ala	Ala	Lys	Lys	Glu	Glu	Ser	20	25	30	
Glu	Thr	Ala	Asn	Lys	Asn	Asp	Ser	Ser	Lys	Lys	Leu	Ser	Val	Glu	Arg	35	40	45	
Val	Tyr	Gln	Lys	Lys	Thr	Gln	Leu	Glu	His	Ile	Leu	Leu	Arg	Pro	Asp	50	55	60	
Thr	Tyr	Ile	Gly	Ser	Val	Glu	Pro	Leu	Thr	Gln	Phe	Met	Trp	Val	Tyr	65	70	75	80
Asp	Glu	Asp	Val	Gly	Met	Asn	Cys	Arg	Glu	Val	Thr	Phe	Val	Pro	Gly	85	90	95	
Leu	Tyr	Lys	Ile	Phe	Asp	Glu	Ile	Leu	Val	Asn	Ala	Ala	Asp	Asn	Lys	100	105	110	
Gln	Arg	Asp	Lys	Asn	Met	Thr	Cys	Ile	Lys	Val	Ser	Ile	Asp	Pro	Glu	115	120	125	
Ser	Asn	Ile	Ile	Ser	Ile	Trp	Asn	Asn	Gly	Lys	Gly	Ile	Pro	Val	Val	130	135	140	
Glu	His	Lys	Val	Glu	Lys	Val	Tyr	Val	Pro	Ala	Leu	Ile	Phe	Gly	Gln	145	150	155	160
Leu	Leu	Thr	Ser	Ser	Asn	Tyr	Asp	Asp	Asp	Glu	Lys	Lys	Val	Thr	Gly	165	170	175	
Gly	Arg	Asn	Gly	Tyr	Gly	Ala	Lys	Leu	Cys	Asn	Ile	Phe	Ser	Thr	Lys	180	185	190	
Phe	Thr	Val	Glu	Thr	Ala	Cys	Lys	Glu	Tyr	Lys	His	Ser	Phe	Lys	Gln	195	200	205	
Thr	Trp	Met	Asn	Asn	Met	Met	Lys	Thr	Ser	Glu	Ala	Lys	Ile	Lys	His	210	215	220	
Phe	Asp	Gly	Glu	Asp	Tyr	Thr	Cys	Ile	Thr	Phe	Gln	Pro	Asp	Leu	Ser	225	230	235	240
Lys	Phe	Lys	Met	Glu	Lys	Leu	Asp	Lys	Asp	Ile	Val	Ala	Leu	Met	Thr	245	250	255	
Arg	Arg	Ala	Tyr	Asp	Leu	Ala	Gly	Ser	Cys	Arg	Gly	Val	Lys	Val	Met	260	265	270	
Phe	Asn	Gly	Lys	Lys	Leu	Pro	Val	Asn	Gly	Phe	Arg	Ser	Tyr	Val	Asp	275	280	285	
Leu	Tyr	Val	Lys	Asp	Lys	Leu	Asp	Glu	Thr	Gly	Val	Ala	Leu	Lys	Val	290	295	300	
Ile	His	Glu	Leu	Ala	Asn	Glu	Arg	Trp	Asp	Val	Cys	Leu	Thr	Leu	Ser	305	310	315	320
Glu	Lys	Gly	Phe	Gln	Gln	Ile	Ser	Phe	Val	Asn	Ser	Ile	Ala	Thr	Thr	325	330	335	
Lys	Gly	Gly	Arg	His	Val	Asp	Tyr	Val	Val	Asp	Gln	Val	Val	Gly	Lys	340	345	350	
Leu	Ile	Glu	Val	Val	Lys	Lys	Lys	Asn	Lys	Ala	Gly	Val	Ser	Val	Lys	355	360	365	
Pro	Phe	Gln	Val	Lys	Asn	His	Ile	Trp	Val	Phe	Ile	Asn	Cys	Leu	Ile	370	375	380	
Glu	Asn	Pro	Thr	Phe	Asp	Ser	Gln	Thr	Lys	Glu	Asn	Met	Thr	Leu	Gln	385	390	395	400
Pro	Lys	Ser	Phe	Gly	Ser	Lys	Cys	Gln	Leu	Ser	Glu	Lys	Phe	Phe	Lys	405	410	415	
Ala	Ala	Ser	Asn	Cys	Gly	Ile	Val	Glu	Ser	Ile	Leu	Asn	Trp	Val	Lys	420	425	430	
Phe	Lys	Ala	Gln	Thr	Gln	Leu	Asn	Lys	Lys	Cys	Ser	Ser	Val	Lys	Tyr	435	440	445	
Ser	Lys	Ile	Lys	Gly	Ile	Pro	Lys	Leu	Asp	Asp	Ala	Asn	Asp	Ala	Gly	450	455	460	
Gly	Lys	His	Ser	Leu	Glu	Cys	Thr	Leu	Ile	Leu	Thr	Glu	Gly	Asp	Ser	465	470	475	480
Ala	Lys	Ser	Leu	Ala	Val	Ser	Gly	Leu	Gly	Val	Ile	Gly	Arg	Asp	Arg	485	490	495	
Tyr	Gly	Val	Phe	Pro	Leu	Arg	Gly	Lys	Ile	Leu	Asn	Val	Arg	Glu	Ala				

500										505										510																											
Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys	Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys	Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys
515										520										525																											
Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu	Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu	Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu
530										535										540																											
Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln	Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln	Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln
545										550										555																											
Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn	Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn	Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn
565										570										575																											
Trp	Pro	Ser	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro	Trp	Pro	Ser	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro	Trp	Pro	Ser	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro			
580										585										590																											
Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile	Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile	Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile
595										600										605																											
Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp	Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp	Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp
610										615										620																											
Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala	Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala	Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala
625										630										635																											
Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr	Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr	Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr
645										650										655																											
Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys	Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys	Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys
660										665										670																											
Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg	Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg	Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg
675										680										685																											
Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr	Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr	Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr
690										695										700																											
Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile	Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile	Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile
705										710										715																											
Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp	Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp	Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp
725										730										735																											
Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg	Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg	Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg
740										745										750																											
Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala	Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala	Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala
755										760										765																											
Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile	Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile	Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile
770										775										780																											
Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu	Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu	Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu
785										790										795																											
Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala	Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala	Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala
805										810										815																											
Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu	Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu	Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu
820										825										830																											
Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp	Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp	Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp
835										840										845																											
Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val	Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val	Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val
850										855										860																											
Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu	Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu	Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu
865										870										875																											
Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu	Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu	Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu
885										890										895																											
Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys	Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys	Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys
900										905										910																											
Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu	Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu	Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu
915										920										925																											
Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val	Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val	Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val
930										935										940																											
Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu	Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu	Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu
945										950										955																											
Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr	Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr	Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr
965										970										975																											
His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys	His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys	His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys
980										985										990																											
Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln	Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln	Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln
995										1000										1005																											
Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys	Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys	Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys

```

1010          1015          1020
Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp
1025          1030          1035          1040
Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met
          1045          1050          1055
Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu
          1060          1065          1070
Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp
          1075          1080          1085
Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys
- 1090          1095          1100
Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln
1105          1110          1115          1120
Asn Gln His Asp Asp Ser Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro
          1125          1130          1135
Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu
          1140          1145          1150
Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val
          1155          1160          1165
Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu
          1170          1175          1180
Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu
1185          1190          1195          1200
Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly
          1205          1210          1215
Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro
          1220          1225          1230
Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala
          1235          1240          1245
Ser Lys Lys Leu Leu Lys Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala
          1250          1255          1260
Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly
1265          1270          1275          1280
Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro
          1285          1290          1295
Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr
          1300          1305          1310
Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn
          1315          1320          1325
Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr
          1330          1335          1340
Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala
1345          1350          1355          1360
Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp
          1365          1370          1375
Ala Asp Asp Asp Asp Asp Asp Asn Asn Asp Leu Glu Glu Leu Lys Val
          1380          1385          1390
Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser
          1395          1400          1405
Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys
          1410          1415          1420
Ala Thr Pro Glu Lys Ser Leu His Asp Lys Lys Ser Gln Asp Phe Gly
1425          1430          1435          1440
Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser
          1445          1450          1455
Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro
          1460          1465          1470
Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala
          1475          1480          1485
Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg
          1490          1495          1500
Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp
1505          1510          1515          1520
Ser Glu Phe Gly Ile Pro Lys Lys Thr Thr Thr Pro Lys Gly Lys Gly

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1525      1530      1535
Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp
1540      1545      1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys
1555      1560      1565
Lys Thr Ser Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Asp
1570      1575      1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys
1585      1590      1595      1600
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Glu Asp Asp Val Asp
1605      1610      1615
Phe Ala Met Phe Asn
16201621

```

<210> 1162

<211> 73

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(73)

<223> X = any amino acid or stop code

<400> 1162

```

Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
1      5      10      15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn
20      25      30
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr
35      40      45
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr
50      55      60
His His Cys Lys Ala His Ser Ser His
65      70      73

```

<210> 1163

<211> 336

<212>Amino acid

<213> Homo sapiens

<400> 1163

```

Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly
1      5      10      15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr
20      25      30
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr
35      40      45
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp
50      55      60
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg
65      70      75      80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala
85      90      95

```



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Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly
    100                      105                      110
Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val
    115                      120                      125
Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr
    130                      135                      140
Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile
    145                      150                      155                      160
Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu
    165                      170                      175
Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys
    180                      185                      190
Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala
    195                      200                      205
Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly
    210                      215                      220
Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly
    225                      230                      235                      240
Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr
    245                      250                      255
Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val
    260                      265                      270
Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu
    275                      280                      285
Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys
    290                      295                      300
Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala
    305                      310                      315                      320
Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser
    325                      330                      335 336

```

<210> 1164

<211> 118

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(118)

<223> X = any amino acid or stop code

<400> 1164

```

His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu
  1                      5                      10                      15
Leu Lys Ser His Phe Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser
    20                      25                      30
Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys
    35                      40                      45
Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn
    50                      55                      60
Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys
    65                      70                      75                      80
Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro
    85                      90                      95
Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val
    100                      105                      110
Val His His Gly Ser Gly

```

115

118

<210> 1165
 <211> 146
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(146)
 <223> X = any amino acid or stop code

<400> 1165
 Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp
 1 5 10 15
 Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp
 20 25 30
 Asp Cys Gly His Ile Arg Phe Phe Ser Phe Ser Leu Ile Glu Gly Tyr
 35 40 45
 Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn
 50 55 60
 Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile
 65 70 75 80
 Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr
 85 90 95
 Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His
 100 105 110
 Arg Gln Ala Ala Ser Gln Val Thr Thr Lys Gln Gly Gln Trp Leu
 115 120 125
 Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu
 130 135 140
 Gly *
 145

<210> 1166
 <211> 84
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(84)
 <223> X = any amino acid or stop code

<400> 1166
 Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly
 1 5 10 15
 Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala
 20 25 30
 Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln
 35 40 45
 Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe
 50 55 60
 Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile

65
Lys Ser Ile Lys
84

70

75

80

<210> 1167
<211> 112
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(112)
<223> X = any amino acid or stop code

<400> 1167
Glu Glu Pro Gln Gly Ser Pro Ile Trp Val Trp Leu Ala Gly Ser Leu
1 5 10 15
Thr Ser Val Ser Cys Phe Leu Pro Phe Gln Arg Met Arg Ile Lys Pro
20 25 30
His Gln Gly Gln Tyr Ile Gly Glu Met Ser Phe Leu Gln His His Lys
35 40 45
Gly Glu Cys Arg Pro Gln Lys Asp Xaa Ala Arg Gln Glu Asn Pro Cys
50 55 60
Gly Pro Cys Ser Glu Arg Arg Lys His Leu Leu Gly Gln Asp Pro Lys
65 70 75 80
Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg
85 90 95
Pro Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
100 105 110 112

<210> 1168
<211> 319
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(319)
<223> X = any amino acid or stop code

<400> 1168
Thr Leu Trp Ala Gly Pro Gly Leu Cys Pro Gln Ser His Ser Ser Ser
1 5 10 15
Ser Val Pro Ala Pro Trp Glu Pro His Val Glu Arg Ala Leu Arg Thr
20 25 30
Asp Arg Asn Gln Gly Gln Arg Pro Leu Leu Ser Ala Ser Trp Ala Pro
35 40 45
Ala Pro Ala Arg Pro Leu Phe Leu Thr Ser Pro Val Leu Leu Pro Lys
50 55 60
Ser Arg Ala Ile Pro Ala Ala Arg Asp Pro Ser Xaa Ala Gly Ile Phe
65 70 75 80
Cys Leu Leu Glu Met Ala Gly Gly Gln Ala Ser Val Val Ile Ile Gly

```

      85      90      95
Ser Ala Gly Val Leu Gly Cys Arg Trp Gly Ser Ser Gly Lys Ser His
      100      105      110
Ser Leu Ser Pro Ser Arg Lys Gly Asn Leu His Leu Leu Ser Gln Glu
      115      120      125
Pro Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser
      130      135      140
Thr Glu Ser Cys Asn Thr Thr Glu Asp Glu Asp Leu Lys Val Arg
      145      150      155      160
Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn
      165      170      175
Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr
      180      185      190
Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe
      195      200      205
His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile
      210      215      220
Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Thr Phe
      225      230      235      240
Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu
      245      250      255
Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala
      260      265      270
Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser
      275      280      285
Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu
      290      295      300
Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly
      305      310      315      319

```

<210> 1169
 <211> 96
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1169
Glu Arg Ala Gly Ala Gly Gly Ala Ala Ala Cys Arg Ala Gly Thr Arg
      1      5      10      15
Ser Gly Ala Thr Ser Arg Thr Pro Trp Pro Leu His Arg Gln Leu Ser
      20      25      30
Met Met Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met
      35      40      45
Gly Thr Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln
      50      55      60
Ser Arg Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln
      65      70      75      80
Gly His Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Gly Gln
      85      90      95      96

```

<210> 1170
 <211> 145
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(145)

<223> X = any amino acid or stop code

<400> 1170

```

Asn Gly Thr Leu Phe Ile Met Val Met His Ile Lys Asp Leu Val Ser
 1           5           10           15
Asp Tyr Lys Glu Xaa Trp Leu Xaa Arg Lys Pro Leu Pro Trp Xaa Glu
      20           25           30
Ala Leu Leu Leu Arg Asp Cys Phe Phe Phe Xaa Val Thr Glu Asn Gly
      35           40           45
Ala Asp Pro Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Asn His
      50           55           60
Lys Thr Ser Lys Arg Lys Thr Lys Ile Ser Arg Lys Thr Arg Asn Pro
      65           70           75           80
Thr Phe Asn Glu Met Leu Val Tyr Ser Gly Tyr Ser Lys Glu Thr Leu
      85           90           95
Arg Gln Arg Glu Leu Gln Leu Ser Val Leu Ser Ala Glu Ser Leu Arg
      100          105          110
Glu Asn Phe Phe Leu Gly Gly Val Thr Leu Pro Leu Lys Asp Phe Asn
      115          120          125
Leu Ser Lys Glu Thr Val Lys Trp Tyr Gln Leu Thr Ala Ala Thr Tyr
      130          135          140
Leu
145

```

<210> 1171

<211> 464

<212>Amino acid

<213> Homo sapiens

<400> 1171

```

Leu His Arg Ile Met Gln Leu Ala Val Val Val Ser Gln Val Leu Glu
 1           5           10           15
Asn Gly Ser Ser Val Leu Val Cys Leu Glu Glu Gly Trp Asp Ile Thr
      20           25           30
Ala Gln Val Thr Ser Leu Val Gln Leu Leu Ser Asp Pro Phe Tyr Arg
      35           40           45
Thr Leu Glu Gly Phe Gln Met Leu Val Glu Lys Glu Trp Leu Ser Phe
      50           55           60
Gly His Lys Phe Ser Gln Arg Ser Ser Leu Thr Leu Asn Cys Gln Gly
      65           70           75           80
Ser Gly Phe Ala Pro Val Phe Leu Gln Phe Leu Asp Cys Val His Gln
      85           90           95
Val His Asn Gln Tyr Pro Thr Glu Phe Glu Phe Asn Leu Tyr Tyr Leu
      100          105          110
Lys Phe Leu Ala Phe His Tyr Val Ser Asn Arg Phe Lys Thr Phe Leu
      115          120          125
Leu Asp Ser Asp Tyr Glu Arg Leu Glu His Gly Thr Leu Phe Asp Asp
      130          135          140
Lys Gly Glu Lys His Ala Lys Lys Gly Val Cys Ile Trp Glu Cys Ile
      145          150          155          160
Asp Arg Met His Lys Arg Ser Pro Ile Phe Phe Asn Tyr Leu Tyr Ser
      165          170          175
Pro Leu Glu Ile Glu Ala Leu Lys Pro Asn Val Asn Val Ser Ser Leu
      180          185          190

```

Lys Lys Trp Asp Tyr Tyr Ile Glu Glu Thr Leu Ser Thr Gly Pro Ser
 195 200 205
 Tyr Asp Trp Met Met Leu Thr Pro Lys His Phe Pro Ser Glu Asp Ser
 210 215 220
 Asp Leu Ala Gly Glu Ala Gly Pro Arg Ser Gln Arg Arg Thr Val Trp
 225 230 235 240
 Pro Cys Tyr Asp Asp Val Ser Cys Thr Gln Pro Asp Ala Leu Thr Ser
 245 250 255
 Leu Phe Ser Glu Ile Glu Lys Leu Glu His Lys Leu Asn Gln Ala Pro
 260 265 270
 Glu Lys Trp Gln Gln Leu Trp Glu Arg Val Thr Val Asp Leu Lys Glu
 275 280 285
 Glu Pro Arg Thr Asp Arg Ser Gln Arg His Leu Ser Arg Ser Pro Gly
 290 295 300
 Ile Val Ser Thr Asn Leu Pro Ser Tyr Gln Lys Arg Ser Leu Leu His
 305 310 315 320
 Leu Pro Asp Ser Ser Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro
 325 330 335
 Ser Asn Gly Val Glu Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr
 340 345 350
 Ser Lys Asn Asp Glu Asn Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg
 355 360 365
 Gly Ala Leu Leu Lys Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val
 370 375 380
 Thr Lys His Gln Leu Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys
 385 390 395 400
 Lys Gly His Ile Asp Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly
 405 410 415
 Pro Ser Met Gly Ala Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp
 420 425 430
 Leu Lys Thr Ser Lys Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln
 435 440 445
 Ser Ala Gln Gln Trp Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala
 450 455 460 464

<210> 1172
 <211> 256
 <212> Amino acid
 <213> Homo sapiens

<400> 1172
 Glu Val Glu Gly Pro Arg Arg Val Ser Pro Ala Pro Glu Thr Leu Gly
 1 5 10 15
 Met Glu Glu Ser Val Val Arg Pro Ser Val Phe Val Val Asp Gly Gln
 20 25 30
 Thr Asp Ile Pro Phe Thr Arg Leu Gly Arg Ser His Arg Arg Gln Ser
 35 40 45
 Cys Ser Val Ala Arg Val Gly Leu Gly Leu Leu Leu Leu Leu Met Gly
 50 55 60
 Ala Gly Leu Ala Val Gln Gly Trp Phe Leu Leu Gln Leu His Trp Arg
 65 70 75 80
 Leu Gly Glu Met Val Thr Arg Leu Pro Asp Gly Pro Ala Gly Ser Trp
 85 90 95
 Glu Gln Leu Ile Gln Glu Arg Arg Ser His Glu Val Asn Pro Ala Ala
 100 105 110
 His Leu Thr Gly Ala Asn Ser Ser Leu Thr Gly Ser Gly Gly Pro Leu
 115 120 125

```

Leu Trp Glu Thr Gln Leu Gly Leu Ala Phe Leu Arg Gly Leu Ser Tyr
 130          135          140
His Asp Gly Ala Leu Val Val Thr Lys Ala Gly Tyr Tyr Tyr Ile Tyr
145          150          155          160
Ser Lys Val Gln Leu Gly Gly Val Gly Cys Pro Leu Gly Leu Ala Ser
          165          170          175
Thr Ile Thr His Gly Leu Tyr Lys Arg Thr Pro Arg Tyr Pro Glu Glu
          180          185          190
Leu Glu Leu Leu Val Ser Gln Gln Ser Pro Cys Gly Arg Ala Thr Ser
          195          200          205
Ser Ser Arg Val Trp Trp Asp Ser Ser Phe Leu Gly Gly Val Val His
          210          215          220
Leu Glu Ala Gly Glu Glu Val Val Val Arg Val Leu Asp Glu Arg Leu
225          230          235          240
Val Arg Leu Arg Asp Gly Thr Arg Ser Tyr Phe Gly Ala Phe Met Val
          245          250          255 256

```

```

<210> 1173
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

<400> 1173
Gln Ser Ala Glu Leu Gly Pro Arg Arg Arg Glu Gly Ser Arg Arg Pro
 1          5          10          15
Ser Cys Thr Lys Ala Ser Lys Pro Trp Arg Arg Arg Pro Gly Gly Pro
          20          25          30
Thr Ser Gly Leu Gly Xaa Gly Pro Leu Ser Pro Gly Pro Tyr Gln Cys
          35          40          45
Arg Pro Ser Leu Pro Ala Gln Leu Tyr Pro Gln Ser Leu Met Ala Ala
          50          55          60
Ala Thr Leu Arg Thr Pro Thr Gln Val Ser Ala Ala Ser Ser Arg Pro
          65          70          75          80
His Thr Pro Ser Pro Thr His Val Leu Lys Pro Ser Val Arg Gly Ala
          85          90          95
Cys Ser Ser Pro Arg Cys Pro Gly Ser Gly Thr Leu Arg Arg Ser Trp
          100          105          110
Val Gly Pro Phe Phe
          115          117

```

```

<210> 1174
<211> 370
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1174
Leu Trp Trp Pro Pro Leu Ser Arg His Ala Ala His Arg Gln Trp Pro

```

```

      1           5           10           15
Gly Pro Thr Ala Pro Arg Gly Leu Gly His Lys Val Lys Gly Arg Gly
      20           25           30
Ala Ser Pro Ala Ala Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly
      35           40           45
Leu Val Glu Glu Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser
      50           55           60
Leu Leu Ser Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys
      65           70           75           80
Tyr Asn Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met
      85           90           95
Thr Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val
      100           105           110
Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg
      115           120           125
Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu Gln Ile
      130           135           140
Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu
      145           150           155           160
Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala
      165           170           175
Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe Val Trp Gly Gly Ala
      180           185           190
Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val
      195           200           205
Ser Thr Arg Ala Leu Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala
      210           215           220
Asp Ala Thr Leu Val Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr
      225           230           235           240
Leu Tyr Ala Leu Val Leu Leu Ser Arg Val Arg Arg Glu Asp Thr Pro
      245           250           255
Leu Asp Arg Asp Thr Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu
      260           265           270
Val Ala Thr Val Cys Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu
      275           280           285
Ile Leu Leu Gly His Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp
      290           295           300
Ala His Tyr Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu
      305           310           315           320
Leu Ala Phe Ser Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met
      325           330           335
Asn Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro
      340           345           350
Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln Val
      355           360           365
Leu Ala
      370

```

<210> 1175

<211> 145

<212>Amino acid

<213> Homo sapiens

<400> 1175

```

Ser Glu Ser Glu Leu Phe Thr Leu Met Pro Ser Leu Pro Thr Thr Asn
      1           5           10           15
Cys Val His Ser Leu Gln Met Ile Pro Pro Leu Ser Pro Ala Pro Asn
      20           25           30
Gln Glu Leu Val Leu Gly Leu Cys Tyr Met Ser Tyr Leu Ala Phe Leu

```



```

      35      40      45
Tyr Met Thr Phe Asp Phe Cys Cys Leu Tyr Phe Ser Thr Val Tyr Ala
   50      55      60
Pro Ser Phe Lys Tyr Ile Cys Val His Thr Asp Thr His Ile Cys Val
   65      70      75      80
Cys Val Cys Ile Tyr Leu Ser Ser Val Val Ser Lys Ser Ser Ala Glu
      85      90      95
Ala Asp Gly Val Leu Gln Pro Arg Arg His Pro Ala Ser Leu Leu Ile
      100      105      110
Val Phe Ala Thr Ser Ile Ser Glu Ser Ser Leu Leu Ile Phe Ser Phe
      115      120      125
Gln Lys Thr Glu Ala Lys Leu Ile Val Phe Ala Val Ser Leu Ala Ala
   130      135      140
Lys
145

```

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<210> 1176
<211> 50
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1176
Phe Phe Phe Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys
  1      5      10      15
Ser Gly Ala Thr Ser Ala Ser Pro Ser Ala Gly Ile Thr Gly Met Ser
      20      25      30
His His Ser Gln Pro Ile Val Asn Phe Leu Arg Ala Cys Ile Pro Ile
      35      40      45
Ser Lys
   50

```

```

<210> 1177
<211> 231
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1177
Arg Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu
  1      5      10      15
Thr Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Leu Arg Arg
      20      25      30
His Gln Arg Gln Gly Gln Glu Gly Glu His Tyr His Ser Cys Val Gln
      35      40      45
Leu Ala Pro Thr Arg Gly Leu Glu Glu Ser Gly His Gly Pro Leu Ser
      50      55      60
Leu Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Thr Glu
      65      70      75      80
Ala Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg
      85      90      95
Tyr Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala
      100      105      110
Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Ala
      115      120      125
Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys

```

```

      130              135              140
Gln His Leu Ile Arg Ala Arg Glu Gln Arg Lys Arg Arg Glu Phe Met
145              150              155              160
Met Gln Ser Arg Leu Glu Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser
      165              170              175
Lys Pro Glu Leu Asn Ile Ile Ala Leu Ser His Arg Lys Thr Met Lys
      180              185              190
Lys Arg Asn Lys Lys Ile Leu Asp Asn Trp Ile Thr Ile Gln Glu Met
      195              200              205
Leu Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro
      210              215              220
Leu Leu Ser Val Thr Thr Val
225              230 231

```

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<210> 1178
<211> 204
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1178
Ser Asp Arg Gly Cys Ser Ala Ala Ala Gly Arg Asn Met Thr Ala Val
 1              5              10              15
Gly Val Gln Ala Gln Arg Pro Leu Gly Gln Arg Gln Pro Arg Arg Ser
      20              25              30
Phe Phe Glu Ser Phe Ile Arg Thr Leu Ile Ile Thr Cys Val Ala Leu
      35              40              45
Ala Val Val Leu Ser Ser Val Ser Ile Cys Asp Gly His Trp Leu Leu
      50              55              60
Ala Glu Asp Arg Leu Phe Gly Leu Trp His Phe Cys Thr Thr Thr Asn
      65              70              75              80
Gln Ser Val Pro Ile Cys Phe Arg Asp Leu Gly Gln Ala His Val Pro
      85              90              95
Gly Leu Ala Val Gly Met Gly Leu Val Arg Ser Val Gly Ala Leu Ala
      100              105              110
Val Val Ala Ala Ile Phe Gly Leu Glu Phe Leu Met Val Ser Gln Leu
      115              120              125
Cys Glu Asp Lys His Ser Gln Cys Lys Trp Val Met Gly Ser Ile Leu
      130              135              140
Leu Leu Val Ser Phe Val Leu Ser Ser Gly Gly Leu Leu Gly Phe Val
145              150              155              160
Ile Leu Leu Arg Asn Gln Val Thr Leu Ile Gly Phe Thr Leu Met Phe
      165              170              175
Trp Cys Glu Phe Thr Ala Ser Phe Leu Leu Phe Leu Asn Ala Ile Ser
      180              185              190
Gly Leu His Ile Asn Ser Ile Thr His Pro Trp Glu
      195              200              204

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<210> 1179
<211> 179
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1179
Gln Ile Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn

```

```

      1           5           10           15
Leu Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr
      20           25           30
Pro Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys
      35           40           45
Gln Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe
      50           55           60
Pro Glu Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly
      65           70           75           80
Val Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr
      85           90           95
Val Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr
      100           105           110
Asp Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe
      115           120           125
Met Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu Glu Arg
      130           135           140
His Ser Gln Glu Gln Gly Ser Gly Gly Gln Ala Ser Ala Ala Ser Asn
      145           150           155           160
Pro Pro Ser Phe Phe Thr Thr Pro Thr Ser Asp Gly Ala Phe Glu Leu
      165           170           175
Ala Pro Thr
      179

```

```

<210> 1180
<211> 159
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1180
Arg Lys Ser Leu His Glu Asn Lys Leu Lys Arg Leu Gln Glu Lys Val
      1           5           10           15
Glu Val Leu Glu Ala Lys Lys Glu Glu Leu Glu Thr Glu Asn Gln Val
      20           25           30
Leu Asn Arg Gln Asn Val Pro Phe Glu Asp Tyr Thr Arg Leu Gln Lys
      35           40           45
Arg Leu Lys Asp Ile Gln Arg Arg His Asn Glu Phe Arg Ser Leu Ile
      50           55           60
Leu Val Pro Asn Met Pro Pro Thr Ala Ser Ile Asn Pro Val Ser Phe
      65           70           75           80
Gln Ser Ser Ala Met Gly Ser Lys His Gly Thr Thr Ile Ser Ser Ser
      85           90           95
Tyr Ala Gly Gly Thr Thr Ser Lys Gly Thr Leu Ser Thr Ser Gln Lys
      100           105           110
Thr Arg Arg Thr Gly Asn Asn Thr Lys Lys Thr Thr Arg Gly Thr Trp
      115           120           125
Ile Phe Arg Arg Met Met Phe Leu Glu Asn Arg Gln Ile Lys Arg Gly
      130           135           140
Glu Val Gly Asp Ser Val Lys Leu Asp Ile Leu Thr Cys Gly Ile
      145           150           155           159

```

```

<210> 1181
<211> 328
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(328)

<223> X = any amino acid or stop code

<400> 1181

```

Gly Arg Pro Gly Ala Gly Ala Ser Glu Leu Phe Pro Ser Val Thr Thr
 1           5           10           15
Asp Leu Ser Val Ser Lys Gln Asn Ala Cys Leu Thr Cys Val Asp Phe
          20           25           30
Val Thr Val His Val Cys Met Gly Phe Trp Gly Ile Gly Pro Gly Ala
          35           40           45
Leu Ser Thr Ser Cys Ile Pro Tyr Pro Leu Ser His Gly Pro Gly Ser
          50           55           60
Val Lys Ala Glu Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile
          65           70           75           80
Leu Cys Val Arg Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro
          85           90           95
Val Val Leu Phe Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro
          100          105          110
Gly Lys Ala Phe Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu
          115          120          125
Leu Val Leu Val Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp
          130          135          140
Ile Phe Gly Val Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile
          145          150          155          160
Leu Pro Ser Ile Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro
          165          170          175
Phe Leu Ser Trp Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly
          180          185          190
Val Leu Phe Met Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala
          195          200          205
Thr Gly Gln Ser Arg Met Ser Gly His Xaa Ser Gly Pro Ala Gly Pro
          210          215          220
Gly Pro Cys Ala His Ala His Gly Gly Val Arg Ala Ala Pro Xaa Gly
          225          230          235          240
Pro Ser Cys Pro Thr Cys Gly Gly Gly Trp Phe Pro Xaa Thr Trp Leu
          245          250          255
Ser Glu Ala Gly Asp Ser Arg Gly Cys Arg Leu Ala His Phe Pro Pro
          260          265          270
Pro Gln Gly Cys Gln Ala Trp Ile Met Ala Leu Ile Pro Thr Pro Thr
          275          280          285
Pro Trp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
          290          295          300
Glu Glu Glu Glu Glu Glu Ala Arg Ser Trp Trp Ser Leu Cys Pro Ala
          305          310          315          320
Gln Ser Ser Leu Pro Pro Pro Gly
          325          328

```

<210> 1182

<211> 144

<212> Amino acid

<213> Homo sapiens

<400> 1182

```

Ile Asn Glu Leu Arg Tyr His Leu Glu Glu Ser Arg Asp Lys Asn Val
 1           5           10           15

```

```

Leu Leu Cys Leu Glu Glu Arg Asp Trp Asp Pro Gly Leu Ala Ile Ile
      20      25      30
Asp Asn Leu Met Gln Ser Ile Asn Gln Ser Lys Lys Thr Val Phe Val
      35      40      45
Leu Thr Lys Lys Tyr Ala Lys Ser Trp Asn Phe Lys Thr Ala Phe Tyr
      50      55      60
Leu Ala Leu Gln Arg Leu Met Asp Glu Asn Met Asp Val Ile Ile Phe
      65      70      75      80
Ile Leu Leu Glu Pro Val Leu Gln His Ser Gln Tyr Leu Arg Leu Arg
      85      90      95
Gln Arg Ile Cys Lys Ser Ser Ile Leu Gln Trp Pro Asp Asn Pro Lys
      100      105      110
Ala Glu Gly Leu Phe Trp Gln Thr Leu Arg Asn Val Val Leu Thr Glu
      115      120      125
Asn Asp Ser Arg Tyr Asn Asn Met Tyr Val Asp Ser Ile Lys Gln Tyr
      130      135      140      144

```

<210> 1183
 <211> 484
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1183
Asp Asp Pro Ile Lys Thr Ser Trp Thr Pro Pro Arg Tyr Val Leu Ser
 1      5      10      15
Met Ser Glu Glu Arg His Glu Arg Val Arg Lys Lys Tyr His Ile Leu
      20      25      30
Val Glu Gly Asp Gly Ile Pro Pro Pro Ile Lys Ser Phe Lys Glu Met
      35      40      45
Lys Phe Pro Ala Ala Ile Leu Arg Gly Leu Lys Lys Lys Gly Ile His
      50      55      60
His Pro Thr Pro Ile Gln Ile Gln Gly Ile Pro Thr Ile Leu Ser Gly
      65      70      75      80
Arg Asp Met Ile Gly Ile Ala Phe Thr Gly Ser Gly Lys Thr Leu Val
      85      90      95
Phe Thr Leu Pro Val Ile Met Phe Cys Leu Glu Gln Glu Lys Arg Leu
      100      105      110
Pro Phe Ser Lys Arg Glu Gly Pro Tyr Gly Leu Ile Ile Cys Pro Ser
      115      120      125
Arg Glu Leu Ala Arg Gln Thr His Gly Ile Leu Glu Tyr Tyr Cys Arg
      130      135      140
Leu Leu Gln Glu Asp Ser Ser Pro Leu Leu Arg Cys Ala Leu Cys Ile
      145      150      155      160
Gly Gly Met Ser Val Lys Glu Gln Met Glu Thr Ile Arg His Gly Val
      165      170      175
His Met Met Val Ala Thr Pro Gly Arg Leu Met Asp Leu Leu Gln Lys
      180      185      190
Lys Met Val Ser Leu Asp Ile Cys Arg Tyr Leu Ala Leu Asp Glu Ala
      195      200      205
Asp Arg Met Ile Asp Met Gly Phe Glu Gly Asp Ile Arg Thr Ile Phe
      210      215      220
Ser Tyr Phe Lys Gly Gln Arg Gln Thr Leu Leu Phe Ser Ala Thr Met
      225      230      235      240
Pro Lys Lys Ile Gln Asn Phe Ala Lys Ser Ala Leu Val Lys Pro Val
      245      250      255
Thr Ile Asn Val Gly Arg Ala Gly Ala Ser Leu Asp Val Ile Gln
      260      265      270

```

Glu Val Glu Tyr Val Lys Glu Glu Ala Lys Met Val Tyr Leu Leu Glu
 275 280 285
 Cys Leu Gln Lys Thr Pro Pro Val Leu Ile Phe Ala Glu Lys Lys
 290 295 300
 Ala Asp Val Asp Ala Ile His Glu Tyr Leu Leu Lys Gly Val Glu
 305 310 315 320
 Ala Val Ala Ile His Gly Gly Lys Asp Gln Glu Glu Arg Thr Lys Ala
 325 330 335
 Ile Glu Ala Phe Arg Glu Gly Lys Lys Asp Val Leu Val Ala Thr Asp
 340 345 350
 Val Ala Ser Lys Gly Leu Asp Phe Pro Ala Ile Gln His Val Ile Asn
 355 360 365
 Tyr Asp Met Pro Glu Glu Ile Glu Asn Tyr Val His Arg Ile Gly Arg
 370 375 380
 Thr Gly Arg Ser Gly Asn Thr Gly Ile Ala Thr Thr Phe Ile Asn Lys
 385 390 395 400
 Ala Cys Asp Glu Ser Val Leu Met Asp Leu Lys Ala Leu Leu Leu Glu
 405 410 415
 Ala Lys Gln Lys Val Pro Pro Val Leu Gln Val Leu His Cys Gly Asp
 420 425 430
 Glu Ser Met Leu Asp Ile Gly Gly Glu Arg Gly Cys Ala Phe Cys Gly
 435 440 445
 Gly Leu Gly His Arg Ile Thr Asp Cys Pro Lys Leu Glu Ala Met Gln
 450 455 460
 Thr Lys Gln Val Ser Asn Ile Gly Arg Lys Asp Tyr Leu Ala His Ser
 465 470 475 480
 Ser Met Asp Phe
 484

<210> 1184
 <211> 125
 <212> Amino acid
 <213> Homo sapiens

<400> 1184
 Ile Glu Thr Thr Gln Pro Ser Glu Asp Thr Asn Ala Asn Ser Gln Asp
 1 5 10 15
 Asn Ser Met Gln Pro Glu Thr Ser Ser Gln Gln Gln Leu Leu Ser Pro
 20 25 30
 Thr Leu Ser Asp Arg Gly Gly Ser Arg Gln Asp Ala Ala Asp Ala Gly
 35 40 45
 Lys Pro Gln Arg Lys Phe Gly Gln Trp Arg Leu Pro Ser Ala Pro Lys
 50 55 60
 Pro Ile Ser His Ser Val Ser Ser Val Asn Leu Arg Phe Gly Gly Arg
 65 70 75 80
 Thr Thr Met Lys Ser Val Val Cys Lys Met Asn Pro Met Thr Asp Ala
 85 90 95
 Ala Ser Cys Gly Ser Glu Val Lys Lys Trp Trp Thr Arg Gln Leu Thr
 100 105 110
 Val Glu Ser Asp Glu Ser Gly Asp Asp Leu Leu Asp Ile
 115 120 125

<210> 1185
 <211> 73
 <212> Amino acid
 <213> Homo sapiens

<400> 1185

```

Asn Asp Arg Phe Ser Ala Cys Tyr Phe Thr Leu Lys Leu Lys Glu Ala
 1           5           10           15
Ala Val Arg Gln Arg Glu Ala Leu Lys Lys Leu Thr Lys Asn Ile Ala
          20           25           30
Thr Asp Ser Tyr Ile Ser Val Asn Leu Arg Asp Val Tyr Ala Arg Ser
          35           40           45
Ile Met Glu Met Leu Arg Leu Lys Gly Arg Glu Arg Ala Ser Thr Arg
          50           55           60
Ser Ser Gly Gly Asp Asp Phe Trp Phe
65           70           73

```

<210> 1186

<211> 343

<212>Amino acid

<213> Homo sapiens

<400> 1186

```

Phe Thr Val Phe Ile Leu Gly Ile Thr Ile Arg Pro Leu Val Glu Phe
 1           5           10           15
Leu Asp Val Lys Arg Ser Asn Lys Lys Gln Gln Ala Val Ser Glu Glu
          20           25           30
Ile Tyr Cys Arg Leu Phe Asp His Val Lys Thr Gly Ile Glu Asp Val
          35           40           45
Cys Gly His Trp Gly His Asn Phe Trp Arg Asp Lys Phe Lys Lys Phe
          50           55           60
Asp Asp Lys Tyr Leu Arg Lys Leu Leu Ile Arg Glu Asn Gln Pro Lys
          65           70           75           80
Ser Ser Ile Val Ser Leu Tyr Lys Lys Leu Glu Ile Lys His Ala Ile
          85           90           95
Glu Met Ala Glu Thr Gly Met Ile Ser Thr Val Pro Thr Phe Ala Ser
          100          105          110
Leu Asn Asp Cys Arg Glu Glu Lys Ile Arg Lys Val Thr Ser Ser Glu
          115          120          125
Thr Asp Glu Ile Arg Glu Leu Leu Ser Arg Asn Leu Tyr Gln Ile Arg
          130          135          140
Gln Arg Thr Leu Ser Tyr Asn Arg His Ser Leu Thr Ala Asp Thr Ser
          145          150          155          160
Glu Arg Gln Ala Lys Glu Ile Leu Ile Arg Arg Arg His Ser Leu Arg
          165          170          175
Glu Ser Ile Arg Lys Asp Ser Ser Leu Asn Arg Glu His Arg Ala Ser
          180          185          190
Thr Ser Thr Ser Arg Tyr Leu Ser Leu Pro Lys Asn Thr Lys Leu Pro
          195          200          205
Glu Lys Leu Gln Lys Arg Arg Thr Ile Ser Ile Ala Asp Gly Asn Ser
          210          215          220
Ser Asp Ser Asp Ala Asp Ala Gly Thr Thr Val Leu Asn Leu Gln Pro
          225          230          235          240
Arg Ala Arg Arg Phe Leu Pro Glu Gln Phe Ser Lys Lys Ser Pro Gln
          245          250          255
Ser Tyr Lys Met Glu Trp Lys Asn Glu Val Asp Val Asp Ser Gly Arg
          260          265          270
Asp Met Pro Ser Thr Pro Pro Thr Pro His Ser Arg Glu Lys Gly Thr
          275          280          285
Gln Thr Ser Gly Leu Leu Gln Gln Pro Leu Leu Ser Lys Asp Gln Ser
          290          295          300

```

Gly Ser Glu Arg Glu Asp Ser Leu Thr Glu Gly Ile Pro Pro Lys Pro
 305 310 315 320
 Pro Pro Arg Leu Val Trp Arg Ala Ser Glu Pro Gly Ser Arg Lys Ala
 325 330 335
 Arg Phe Gly Ser Glu Lys Pro
 340 343

<210> 1187
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

<400> 1187
 His Glu Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys Gln Met Glu
 1 5 10 15
 Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile Leu Ser Leu
 20 25 30
 Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala Thr Thr Thr
 35 40 45
 Leu Phe Leu Pro Ile Phe Ala Ser Met Ser Arg Ser Ile Gly Leu Asn
 50 55 60
 Pro Leu Tyr Ile Met Leu Pro Cys Thr Leu Ser Ala Ser Phe Ala Phe
 65 70 75 80
 Met Leu Pro Val Ala Thr Pro Pro Asn Ala Ile Val Phe Thr Tyr Gly
 85 90 95
 His Leu Lys Val Ala Asp Met Val Lys Thr Gly Val Ile Met Asn Ile
 100 105 110
 Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn Thr Trp Gly Arg Ala
 115 120 125
 Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala Asn Val Thr His Ile
 130 135 140
 Glu Thr
 145 146

<210> 1188
 <211> 40
 <212> Amino acid
 <213> Homo sapiens

<400> 1188
 His Glu Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala Pro Thr Glu
 1 5 10 15
 Glu Gly Lys Lys Glu Leu Leu Ala Leu Ser Asn Ala Asn Pro Ser Leu
 20 25 30
 Leu Glu Arg His Cys Ala Tyr Leu
 35 40

<210> 1189
 <211> 62
 <212> Amino acid
 <213> Homo sapiens

<400> 1189

```

Gly Asn Ile Ile Tyr Met Tyr Met Gln Pro Gly Ala Arg Ser Ser Gln
 1           5           10           15
Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Asn Ile Val Thr Pro Leu
          20           25           30
Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Arg Glu Val Lys Gly Ala
          35           40           45
Leu Gly Arg Leu Leu Leu Gly Lys Arg Glu Leu Gly Lys Glu
   50           55           60           62

```

<210> 1190

<211> 623

<212> Amino acid

<213> Homo sapiens

<400> 1190

```

Pro Leu Glu Gln Arg Ser Asn Cys Arg Val Asp Pro Arg Val Arg Thr
 1           5           10           15
His Thr Met Ala Ser Asp Thr Ser Ser Leu Val Gln Ser His Thr Tyr
          20           25           30
Lys Lys Arg Glu Pro Ala Asp Val Pro Tyr Gln Thr Gly Gln Leu His
          35           40           45
Pro Ala Ile Arg Val Ala Asp Leu Leu Gln His Ile Thr Gln Met Lys
   50           55           60
Cys Ala Glu Gly Tyr Gly Phe Lys Glu Glu Tyr Glu Ser Phe Phe Glu
   65           70           75           80
Gly Gln Ser Ala Pro Trp Asp Ser Ala Lys Lys Asp Glu Asn Arg Met
          85           90           95
Lys Asn Arg Tyr Gly Asn Ile Ile Ala Tyr Asp His Ser Arg Val Arg
          100          105          110
Leu Gln Thr Ile Glu Gly Asp Thr Asn Ser Asp Tyr Ile Asn Gly Asn
          115          120          125
Tyr Ile Asp Gly Tyr His Arg Pro Asn His Tyr Ile Ala Thr Gln Gly
          130          135          140
Pro Met Gln Glu Thr Ile Tyr Asp Phe Trp Arg Met Val Trp His Glu
          145          150          155          160
Asn Thr Ala Ser Ile Ile Met Val Thr Asn Leu Val Glu Val Gly Arg
          165          170          175
Val Lys Cys Cys Lys Tyr Trp Pro Asp Asp Thr Glu Ile Tyr Lys Asp
          180          185          190
Ile Lys Val Thr Leu Ile Glu Thr Glu Leu Leu Ala Glu Tyr Val Ile
          195          200          205
Arg Thr Phe Ala Val Glu Lys Arg Gly Val His Glu Ile Arg Glu Ile
          210          215          220
Arg Gln Phe His Phe Thr Gly Trp Pro Asp His Gly Val Pro Tyr His
          225          230          235          240
Ala Thr Gly Leu Leu Gly Phe Val Arg Gln Val Lys Ser Lys Ser Pro
          245          250          255
Pro Ser Ala Gly Pro Leu Val Val His Cys Ser Ala Gly Ala Gly Arg
          260          265          270
Thr Gly Cys Phe Ile Val Ile Asp Ile Met Leu Asp Met Ala Glu Arg
          275          280          285
Glu Gly Val Val Asp Ile Tyr Asn Cys Val Arg Glu Leu Arg Ser Arg
          290          295          300
Arg Val Asn Met Val Gln Thr Glu Glu Gln Tyr Val Phe Ile His Asp
          305          310          315          320

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Ala Ile Leu Glu Ala Cys Leu Cys Gly Asp Thr Ser Val Pro Ala Ser
 325 330 335
 Gln Val Arg Ser Leu Tyr Tyr Asp Met Asn Lys Leu Asp Pro Gln Thr
 340 345 350
 Asn Ser Ser Gln Ile Lys Glu Glu Phe Arg Thr Leu Asn Met Val Thr
 355 360 365
 Pro Thr Leu Arg Val Glu Asp Cys Ser Ile Ala Leu Leu Pro Arg Asn
 370 375 380
 His Glu Lys Asn Arg Cys Met Asp Ile Leu Pro Pro Asp Arg Cys Leu
 385 390 395 400
 Pro Phe Leu Ile Thr Ile Asp Gly Glu Ser Ser Asn Tyr Ile Asn Ala
 405 410 415
 Ala Leu Met Asp Ser Tyr Lys Gln Pro Ser Ala Phe Ile Val Thr Gln
 420 425 430
 His Pro Leu Pro Asn Thr Val Lys Asp Phe Trp Arg Leu Val Leu Asp
 435 440 445
 Tyr His Cys Thr Ser Val Val Met Leu Asn Asp Val Asp Pro Ala Gln
 450 455 460
 Leu Cys Pro Gln Tyr Trp Pro Glu Asn Gly Val His Arg His Gly Pro
 465 470 475 480
 Ile Gln Val Glu Phe Val Ser Ala Asp Leu Glu Glu Asp Ile Ile Ser
 485 490 495
 Arg Ile Phe Arg Ile Tyr Asn Ala Ala Arg Pro Gln Asp Gly Tyr Arg
 500 505 510
 Met Val Gln Gln Phe Gln Phe Leu Gly Trp Pro Met Tyr Arg Asp Thr
 515 520 525
 Pro Val Ser Lys Arg Ser Phe Leu Lys Leu Ile Arg Gln Val Asp Lys
 530 535 540
 Trp Gln Glu Glu Tyr Asn Gly Gly Glu Gly Arg Thr Val Val His Cys
 545 550 555 560
 Leu Asn Gly Gly Gly Arg Ser Gly Thr Phe Cys Ala Ile Ser Ile Val
 565 570 575
 Cys Glu Met Leu Arg His Gln Arg Thr Val Asp Val Phe His Ala Val
 580 585 590
 Lys Thr Leu Arg Asn Asn Lys Pro Asn Met Val Asp Leu Leu Asp Gln
 595 600 605
 Tyr Lys Phe Cys Tyr Glu Val Ala Leu Glu Tyr Leu Asn Ser Gly
 610 615 620 623

<210> 1191
 <211> 86
 <212> Amino acid
 <213> Homo sapiens

<400> 1191
 Pro Leu Thr Tyr Asn Lys Lys Tyr Thr Tyr Pro Trp Trp Gly Asp Ala
 1 5 10 15
 Leu Gly Trp Leu Leu Ala Leu Ser Ser Met Val Cys Ile Pro Ala Trp
 20 25 30
 Ser Leu Tyr Arg Leu Gly Thr Leu Lys Gly Pro Phe Arg Glu Arg Ile
 35 40 45
 Arg Gln Leu Met Cys Pro Ala Glu Asp Leu Pro Gln Arg Asn Pro Ala
 50 55 60
 Gly Pro Ser Ala Pro Ala Thr Pro Arg Thr Ser Leu Leu Arg Leu Thr
 65 70 75 80
 Glu Leu Glu Ser His Cys
 85 86

<210> 1192
 <211> 109
 <212>Amino acid
 <213> Homo sapiens

<400> 1192
 Thr Leu Ser Glu Ser Gly Ala Leu Phe Ser Leu Gly Pro Pro Pro Leu
 1 5 10 15
 Ser Leu Lys Ser Ser Ser Ala Pro Arg Pro Tyr Ser Thr Leu Arg Asp
 20 25 30
 Cys Leu Glu His Phe Ala Glu Leu Phe Asp Leu Gly Phe Pro Asn Pro
 35 40 45
 Leu Ala Glu Arg Ile Ile Phe Glu Thr His Gln Ile His Phe Ala Asn
 50 55 60
 Cys Ser Leu Gly Gln Pro Thr Phe Ser Asp Pro Pro Glu Asp Val Leu
 65 70 75 80
 Leu Ala Met Ile Ile Ala Pro Ile Cys Leu Ile Pro Phe Leu Ile Thr
 85 90 95
 Leu Val Val Trp Arg Ser Lys Asp Ser Glu Ala Gln Ala
 100 105 109

<210> 1193
 <211> 257
 <212>Amino acid
 <213> Homo sapiens

<400> 1193
 Cys Glu Glu Arg Glu Gln Glu Lys Asp Asp Val Asp Val Ala Leu Leu
 1 5 10 15
 Pro Thr Ile Val Glu Lys Val Ile Leu Pro Lys Leu Thr Val Ile Ala
 20 25 30
 Glu Asn Met Trp Asp Pro Phe Ser Thr Thr Gln Thr Ser Arg Met Val
 35 40 45
 Gly Ile Thr Leu Lys Leu Ile Asn Gly Tyr Pro Ser Val Val Asn Ala
 50 55 60
 Glu Asn Lys Asn Thr Gln Val Tyr Leu Lys Ala Leu Leu Leu Arg Met
 65 70 75 80
 Arg Arg Thr Leu Asp Asp Val Phe Met Pro Leu Tyr Pro Lys Asn
 85 90 95
 Val Leu Glu Asn Lys Asn Ser Gly Pro Tyr Leu Phe Phe Gln Arg Gln
 100 105 110
 Phe Trp Ser Ser Val Lys Leu Leu Gly Asn Phe Leu Gln Trp Tyr Gly
 115 120 125
 Ile Phe Ser Asn Lys Thr Leu Gln Glu Leu Ser Ile Asp Gly Leu Leu
 130 135 140
 Asn Arg Tyr Ile Leu Met Ala Phe Gln Asn Ser Glu Tyr Gly Asp Asp
 145 150 155 160
 Ser Ile Lys Lys Ala Gln Asn Val Ile Asn Cys Phe Pro Lys Gln Trp
 165 170 175
 Phe Met Asn Leu Lys Gly Glu Arg Thr Ile Ser Gln Leu Glu Asn Phe
 180 185 190
 Cys Arg Tyr Leu Val His Leu Ala Asp Thr Ile Tyr Arg Asn Ser Ile
 195 200 205
 Gly Cys Ser Asp Val Glu Lys Arg Asn Ala Arg Glu Asn Ile Lys Gln
 210 215 220

Ile Val Lys Leu Leu Ala Ser Val Arg Ala Leu Asp His Ala Met Ser
 225 230 235 240
 Val Ala Ser Asp His Asn Val Lys Glu Phe Lys Ser Leu Ile Glu Gly
 245 250 255
 Lys
 257

<210> 1194
 <211> 416
 <212> Amino acid
 <213> Homo sapiens

<400> 1194
 Thr Pro Phe Cys Phe Leu Cys Ser Leu Val Phe Arg Ser Arg Val Trp
 1 5 10 15
 Ala Glu Pro Cys Leu Ile Asp Ala Ala Lys Glu Glu Tyr Asn Gly Val
 20 25 30
 Ile Glu Glu Phe Leu Ala Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val
 35 40 45
 Trp Gly Arg Tyr Asp Leu Leu Phe Met Pro Pro Ser Phe Pro Phe Gly
 50 55 60
 Gly Met Glu Asn Pro Cys Leu Thr Phe Val Thr Pro Cys Leu Leu Ala
 65 70 75 80
 Gly Asp Arg Ser Leu Ala Asp Val Ile Ile His Glu Ile Ser His Ser
 85 90 95
 Trp Phe Gly Asn Leu Val Thr Asn Ala Asn Trp Gly Glu Phe Trp Leu
 100 105 110
 Asn Glu Gly Phe Thr Met Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu
 115 120 125
 Phe Gly Ala Ala Tyr Thr Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu
 130 135 140
 Leu Arg Gln His Met Asp Ile Thr Gly Glu Glu Asn Pro Leu Asn Lys
 145 150 155 160
 Leu Arg Val Lys Ile Glu Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn
 165 170 175
 Glu Thr Pro Tyr Glu Lys Gly Phe Cys Phe Val Ser Tyr Leu Ala His
 180 185 190
 Leu Val Gly Asp Gln Asp Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val
 195 200 205
 His Glu Phe Lys Phe Arg Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe
 210 215 220
 Tyr Leu Glu Tyr Phe Pro Glu Leu Lys Lys Lys Arg Val Asp Ile Ile
 225 230 235 240
 Pro Gly Phe Glu Phe Asp Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro
 245 250 255
 Tyr Leu Pro Asp Leu Ser Pro Gly Asp Ser Leu Met Lys Pro Ala Glu
 260 265 270
 Glu Leu Ala Gln Leu Trp Ala Ala Glu Glu Leu Asp Met Lys Ala Ile
 275 280 285
 Glu Ala Val Ala Ile Ser Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe
 290 295 300
 Leu Asp Lys Ile Leu Gln Lys Ser Pro Leu Pro Pro Gly Asn Val Lys
 305 310 315 320
 Lys Leu Gly Asp Thr Tyr Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu
 325 330 335
 Leu Arg Leu Arg Trp Gly Gln Ile Val Leu Lys Asn Asp His Gln Glu
 340 345 350
 Asp Phe Trp Lys Val Lys Glu Phe Leu His Asn Gln Gly Lys Gln Lys
 355 360 365

Tyr Thr Leu Pro Leu Tyr His Ala Met Met Gly Gly Ser Glu Val Ala
 370 375 380
 Gln Thr Leu Ala Lys Glu Thr Phe Ala Ser Thr Ala Ser Gln Leu His
 385 390 395 400
 Ser Asn Val Val Asn Tyr Val Gln Gln Ile Val Ala Pro Lys Gly Ser
 405 410 415 416

<210> 1195
 <211> 295
 <212> Amino acid
 <213> Homo sapiens

<400> 1195
 Cys Ala Ser Gly Ser Ser Gly Trp Arg Pro Val Leu Trp Ala Gly Ala
 1 5 10 15
 Phe Thr Met Ala Ser Ala Glu Leu Asp Tyr Thr Ile Glu Ile Pro Asp
 20 25 30
 Gln Pro Cys Trp Ser Gln Lys Asn Ser Pro Ser Pro Gly Gly Lys Glu
 35 40 45
 Ala Glu Thr Arg Gln Pro Val Val Ile Leu Leu Gly Trp Gly Gly Cys
 50 55 60
 Lys Asp Lys Asn Leu Ala Lys Tyr Ser Ala Ile Tyr His Lys Arg Gly
 65 70 75 80
 Cys Ile Val Ile Arg Tyr Thr Ala Pro Trp His Met Val Phe Phe Ser
 85 90 95
 Glu Ser Leu Gly Ile Pro Ser Leu Arg Val Leu Ala Gln Lys Leu Leu
 100 105 110
 Glu Leu Leu Phe Asp Tyr Glu Ile Glu Lys Glu Pro Leu Leu Phe His
 115 120 125
 Val Phe Ser Asn Gly Gly Val Met Leu Tyr Arg Tyr Val Leu Glu Leu
 130 135 140
 Leu Gln Thr Arg Arg Phe Cys Arg Leu Arg Val Val Gly Thr Ile Phe
 145 150 155 160
 Asp Ser Ala Pro Gly Asp Ser Asn Leu Val Gly Ala Leu Arg Ala Leu
 165 170 175
 Ala Ala Ile Leu Glu Arg Arg Ala Ala Met Leu Arg Leu Leu Leu Leu
 180 185 190
 Val Ala Phe Ala Leu Val Val Val Leu Phe His Val Leu Leu Ala Pro
 195 200 205
 Ile Thr Ala Leu Phe His Thr His Phe Tyr Asp Arg Leu Gln Asp Ala
 210 215 220
 Gly Ser Arg Trp Pro Glu Leu Tyr Leu Tyr Ser Arg Ala Asp Glu Val
 225 230 235 240
 Val Leu Ala Arg Asp Ile Glu Arg Met Val Glu Ala Arg Leu Ala Arg
 245 250 255
 Arg Val Leu Ala Arg Ser Val Asp Phe Val Ser Ser Ala His Val Ser
 260 265 270
 His Leu Arg Asp Tyr Pro Thr Tyr Thr Ser Leu Cys Val Asp Phe
 275 280 285
 Met Arg Asn Trp Val Arg Cys
 290 295

<210> 1196
 <211> 97
 <212> Amino acid
 <213> Homo sapiens

<400> 1196

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Pro Arg Val Arg Asp Arg Leu Pro Ser Thr Gly Val Arg Asp Arg Lys
 1           5           10           15
Gly Asp Lys Pro Trp Lys Glu Ser Gly Gly Ser Val Glu Ala Pro Arg
          20           25           30
Met Gly Phe Thr His Pro Pro Gly His Leu Ser Gly Cys Gln Ser Ser
          35           40           45
Leu Ala Ser Gly Glu Thr Gly Thr Gly Ser Ala Asp Pro Pro Gly Gly
          50           55           60
Pro Arg Pro Gly Leu Thr Arg Arg Ala Pro Val Lys Asp Thr Pro Gly
          65           70           75           80
Arg Ala Pro Ala Ala Asp Ala Ala Pro Ala Gly Pro Ser Ser Cys Leu
          85           90           95
Gly
97

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<210> 1197

<211> 204

<212>Amino acid

<213> Homo sapiens

<400> 1197

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Gln Gly Arg Thr Ser Cys Ile Gly Leu Tyr Thr Tyr Gln Arg Arg Ile
 1           5           10           15
Cys Lys Tyr Arg Asp Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr
          20           25           30
Thr Phe Ala Ile Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp
          35           40           45
Pro Ser Gln Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu
          50           55           60
Glu Tyr Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met
          65           70           75           80
Lys Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln
          85           90           95
Gly Gly Met Ile Trp Lys Ile Ser Glu Asp Lys Gln Leu Ala Val Cys
          100          105          110
Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala Asp Gly
          115          120          125
Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile Lys Glu Ala
          130          135          140
Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys Cys Ser Asp Met
          145          150          155          160
Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln Met His Val Met Met
          165          170          175
Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly His Ile Phe Asn Asp Ala
          180          185          190
Leu Val Phe Leu Pro Pro Asn Gly Ser Asp Asn Asp
          195          200          204

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<210> 1198

<211> 238

<212>Amino acid

<213> Homo sapiens

<400> 1198
 His Glu Gly Lys Pro Thr Arg Gly Arg Gly Arg Gly Gly Ser Leu Ser
 1 5 10 15
 Thr Arg Gly Arg Gly Ser Glu Val Pro Asp Ser Ala His Leu Ala Pro
 20 25 30
 Thr Pro Leu Phe Ser Glu Ser Gly Cys Cys Gly Leu Arg Ser Arg Phe
 35 40 45
 Leu Thr Asp Cys Lys Met Glu Gly Gly Asn Leu Gly Gly Leu Ile
 50 55 60
 Lys Met Val His Leu Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met
 65 70 75 80
 Trp Val Thr Phe Val Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg
 85 90 95
 His Thr Phe Gly Leu Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His
 100 105 110
 Ile Ser Met Gly Cys Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln
 115 120 125
 His Ala Trp Ala Gln Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu
 130 135 140
 Leu Phe Leu Ser Leu Thr Leu Ala Thr Val Asn Ala Arg Trp Leu Glu
 145 150 155 160
 Pro Arg Thr Thr Ala Ala Met Trp Ala Leu Gln Thr Val Glu Lys Glu
 165 170 175
 Arg Gly Leu Gly Gly Glu Val Pro Gly Ser His Gln Gly Pro Asp Pro
 180 185 190
 Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys Tyr Ser Ala Leu Arg Gln
 195 200 205
 Asn Phe Phe Arg Tyr His Gly Leu Ser Ser Leu Cys Asn Leu Gly Cys
 210 215 220
 Val Leu Ser Asn Gly Leu Cys Leu Ala Ala Leu Pro Trp Lys
 225 230 235 238

<210> 1199
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1199
 Lys Gln Leu Asp Lys Gln Leu Arg Ala Asp Pro Ser Gly Ser Leu Pro
 1 5 10 15
 Pro Leu Pro Pro Ser Pro Pro Pro Pro Leu Glu Ala Gly Gly Arg Pro
 20 25 30
 Pro Glu Val Pro Pro Arg Gly Pro Ser Ala Val Pro Ser Phe Pro Ser
 35 40 45
 Val Ser Gly Asp Trp Gly Gly Pro Val Glu Ala Gly Glu Gly Gly Gln
 50 55 60
 Gln Gly Arg Gly Arg Ala Arg Ala Arg Pro Cys Ser Leu Pro Pro Leu
 65 70 75 80
 Leu Pro Pro Ser Pro Val Cys Arg Leu Ser Gly Ser Arg Ala Pro Leu
 85 90 95
 Gly Cys Asp Gly
 100

<210> 1200
 <211> 194
 <212>Amino acid
 <213> Homo sapiens

<400> 1200
 Arg Asn Gln Leu Ser Ser Gln Lys Ser Val Pro Trp Val Pro Ile Leu
 1 5 10 15
 Lys Ser Leu Pro Leu Trp Ala Ile Val Val Ala His Phe Ser Tyr Asn
 20 25 30
 Trp Thr Phe Tyr Thr Leu Leu Thr Leu Leu Pro Thr Tyr Met Lys Glu
 35 40 45
 Ile Leu Arg Phe Asn Val Gln Glu Asn Gly Phe Leu Ser Ser Leu Pro
 50 55 60
 Tyr Leu Gly Ser Trp Leu Cys Met Ile Leu Ser Gly Gln Ala Ala Asp
 65 70 75 80
 Asn Leu Arg Ala Lys Trp Asn Phe Ser Thr Leu Cys Val Arg Arg Ile
 85 90 95
 Phe Ser Leu Ile Gly Met Ile Gly Pro Ala Val Phe Leu Val Ala Ala
 100 105 110
 Gly Phe Ile Gly Cys Asp Tyr Ser Leu Ala Val Ala Phe Leu Thr Ile
 115 120 125
 Ser Thr Thr Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His
 130 135 140
 Leu Asp Ile Ala Pro Ser Tyr Ala Gly Ile Leu Leu Gly Ile Thr Asn
 145 150 155 160
 Thr Phe Ala Thr Ile Pro Gly Met Val Gly Pro Val Ile Ala Lys Ser
 165 170 175
 Leu Thr Pro Asp Met Gly Ile Ser Leu His Arg Pro Gly Trp Ser Ala
 180 185 190
 Val Ala
 194

<210> 1201
 <211> 119
 <212>Amino acid
 <213> Homo sapiens

<400> 1201
 Gly Pro Ser Gly Thr Thr His Ala Ser Ala His Ser Gly His Pro Gly
 1 5 10 15
 Ser Pro Arg Gly Ser Leu Ser Arg His Pro Ser Ser Gln Leu Ala Gly
 20 25 30
 Pro Gly Val Glu Gly Gly Glu Gly Thr Gln Lys Pro Arg Asp Tyr Ile
 35 40 45
 Ile Leu Ala Ile Leu Ser Cys Phe Cys Pro Met Trp Pro Val Asn Ile
 50 55 60
 Val Ala Phe Ala Tyr Ala Val Met Ser Arg Asn Ser Leu Gln Gln Gly
 65 70 75 80
 Asp Val Asp Gly Ala Gln Arg Leu Gly Arg Val Ala Lys Leu Leu Ser
 85 90 95
 Ile Val Ala Leu Val Gly Gly Val Leu Ile Ile Ile Ala Ser Cys Val
 100 105 110
 Ile Asn Leu Gly Val Tyr Lys
 115 119

<210> 1202
 <211> 66
 <212>Amino acid
 <213> Homo sapiens

<400> 1202
 Ser Leu Phe Leu Ser Phe Pro Pro Leu Ser Phe Lys Met Thr Leu Asn
 1 5 10 15
 Asp Ala Met Arg Asn Lys Ala Arg Leu Ser Ile Thr Gly Ser Thr Gly
 20 25 30
 Glu Asn Gly Arg Val Met Thr Pro Glu Phe Pro Lys Ala Val His Ala
 35 40 45
 Val Pro Tyr Val Ser Pro Gly Met Gly Met Asn Val Ser Val Thr Asp
 50 55 60
 Leu Ser
 65 66

<210> 1203
 <211> 509
 <212>Amino acid
 <213> Homo sapiens

<400> 1203
 Asp Asp Val Pro Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
 1 5 10 15
 Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
 20 25 30
 Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
 35 40 45
 Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys
 50 55 60
 Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
 65 70 75 80
 Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
 85 90 95
 Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
 100 105 110
 Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
 115 120 125
 Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
 130 135 140
 Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
 145 150 155 160
 Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
 165 170 175
 His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
 180 185 190
 Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
 195 200 205
 Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
 210 215 220
 Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
 225 230 235 240

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Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
      245      250      255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
      260      265      270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
      275      280      285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
      290      295      300
Tyr Val His Leu Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu
      305      310      315
Leu Leu Glu Lys Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu
      325      330      335
Leu Gln Gln Leu Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg
      340      345      350
Pro Ile Asp His Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala
      355      360      365
Pro Gly Arg Thr Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu
      370      375      380
Phe Tyr Leu Glu Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala
      385      390      395      400
Val Asp Ala Phe Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile
      405      410      415
Phe Val Ala His Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val
      420      425      430
Phe Ile Gly Asp Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg
      435      440      445
Ser Gln Val Thr His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly
      450      455      460
Ile Val Ala Thr Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser
      465      470      475      480
Ala Ala Gln Asp Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr
      485      490      495
Gln Gln Phe Arg Arg Val Leu Gly Gln Leu Ala Ala Ala
      500      505      509

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<210> 1204

<211> 453

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(453)

<223> X = any amino acid or stop code

<400> 1204

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Glu Met Glu Glu Pro Gln Lys Ser Tyr Val Asn Thr Met Asp Leu Glu
 1          5          10          15
Arg Asp Glu Pro Leu Lys Ser Thr Gly Pro Gln Ile Ser Val Ser Glu
      20      25      30
Phe Ser Cys His Cys Cys Tyr Asp Ile Leu Val Asn Pro Thr Thr Leu
      35      40      45
Asn Cys Gly His Ser Phe Cys Arg His Cys Leu Ala Leu Trp Trp Ala
      50      55      60
Ser Ser Lys Lys Thr Glu Cys Pro Glu Cys Arg Glu Lys Trp Glu Gly
      65      70      75      80
Phe Pro Lys Val Ser Ile Leu Leu Arg Asp Ala Ile Glu Lys Leu Phe
      85      90      95
Pro Asp Ala Ile Arg Leu Arg Phe Glu Asp Ile Gln Gln Asn Asn Asp

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<210> 1205
<211> 80
<212> Amino acid
<213> Homo sapiens
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719

50 55 60
 Ile Tyr Lys Ser Phe Val Glu Ser Thr Ala Gly Ser Ser Ser Glu Ser
 65 70 75 80

<210> 1206
 <211> 205
 <212> Amino acid
 <213> Homo sapiens

<400> 1206
 Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile Ser Asp Phe
 1 5 10 15
 Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met Ser Thr Ala Cys
 20 25 30
 Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu Ala Gln Lys Pro Tyr
 35 40 45
 Ser Lys Ala Val Asp Cys Trp Ser Ile Gly Val Ile Ala Tyr Ile Leu
 50 55 60
 Leu Cys Gly Tyr Pro Pro Phe Tyr Asp Glu Asn Asp Ser Lys Leu Phe
 65 70 75 80
 Glu Gln Ile Leu Lys Ala Glu Tyr Glu Phe Asp Ser Pro Tyr Trp Asp
 85 90 95
 Asp Ile Ser Asp Ser Ala Lys Asp Phe Ile Arg Asn Leu Met Glu Lys
 100 105 110
 Asp Pro Asn Lys Arg Tyr Thr Cys Glu Gln Ala Ala Arg His Pro Trp
 115 120 125
 Ile Ala Gly Asp Thr Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser
 130 135 140
 Ala Gln Ile Arg Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe
 145 150 155 160
 Asn Ala Thr Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser
 165 170 175
 Ser Leu Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala
 180 185 190
 Ser Gln Lys Asp Cys Ala Ser Gly Thr Phe His Ala Leu
 195 200 205

<210> 1207
 <211> 117
 <212> Amino acid
 <213> Homo sapiens

<400> 1207
 Arg Thr Arg Gly Gly Ala Val Ser Phe Glu Asp Phe Ile Lys Gly Leu
 1 5 10 15
 Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys Leu Asn Trp Ala Phe
 20 25 30
 Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met
 35 40 45
 Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly Lys Cys Thr Tyr
 50 55 60
 Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe

65					70					75				80	
Gln	Lys	Met	Asp	Lys	Asn	Lys	Asp	Gly	Val	Val	Thr	Ile	Asp	Glu	Phe
				85					90					95	
Ile	Glu	Ser	Cys	Gln	Lys	Asp	Glu	Asn	Ile	Met	Arg	Ser	Met	Gln	Leu
			100					105						110	
Phe	Glu	Asn	Val	Ile											
		115		117											

<210> 1208
 <211> 337
 <212> Amino acid
 <213> Homo sapiens

<400> 1208

Pro	Arg	Ser	Pro	Glu	His	His	Thr	Pro	Ala	Trp	His	Glu	Gly	Arg	Ser
1				5					10					15	
Leu	Gly	Pro	Ile	Met	Ala	Ser	Met	Ala	Asp	Arg	Asn	Met	Lys	Leu	Phe
			20					25					30		
Ser	Gly	Arg	Val	Val	Pro	Ala	Gln	Gly	Glu	Glu	Thr	Phe	Glu	Asn	Trp
		35					40					45			
Leu	Thr	Gln	Val	Asn	Gly	Val	Leu	Pro	Asp	Trp	Asn	Met	Ser	Glu	Glu
	50					55					60				
Glu	Lys	Leu	Lys	Arg	Leu	Met	Lys	Thr	Leu	Arg	Gly	Pro	Ala	Arg	Glu
	65				70					75				80	
Val	Met	Arg	Val	Leu	Gln	Ala	Thr	Asn	Pro	Asn	Leu	Ser	Val	Ala	Asp
				85				90						95	
Phe	Leu	Arg	Ala	Met	Lys	Leu	Val	Phe	Gly	Glu	Ser	Glu	Ser	Ser	Val
			100					105						110	
Thr	Ala	His	Gly	Lys	Phe	Phe	Asn	Thr	Leu	Gln	Ala	Gln	Gly	Glu	Lys
		115					120					125			
Ala	Ser	Leu	Tyr	Val	Ile	Arg	Leu	Glu	Val	Gln	Leu	Gln	Asn	Ala	Ile
	130					135					140				
Gln	Ala	Gly	Ile	Ile	Ala	Glu	Lys	Asp	Ala	Asn	Arg	Thr	Arg	Leu	Gln
	145				150				155					160	
Gln	Leu	Leu	Leu	Gly	Glu	Leu	Ser	Arg	Asp	Leu	Arg	Leu	Arg	Leu	
			165					170					175		
Lys	Asp	Phe	Leu	Arg	Met	Tyr	Ala	Asn	Glu	Gln	Glu	Arg	Leu	Pro	Asn
		180						185					190		
Phe	Leu	Glu	Leu	Ile	Lys	Met	Val	Arg	Glu	Glu	Glu	Asp	Trp	Asp	Asp
	195						200					205			
Ala	Phe	Ile	Lys	Arg	Lys	Arg	Pro	Lys	Arg	Ser	Glu	Ser	Met	Val	Glu
	210				215						220				
Arg	Ala	Val	Ser	Pro	Val	Ala	Phe	Gln	Gly	Ser	Pro	Pro	Ile	Val	Ile
	225				230					235				240	
Gly	Ser	Ala	Asp	Cys	Asn	Val	Ile	Glu	Ile	Asp	Asp	Thr	Leu	Asp	Asp
			245					250					255		
Ser	Asp	Glu	Asp	Val	Ile	Leu	Val	Glu	Ser	Gln	Asp	Pro	Pro	Leu	Pro
		260						265					270		
Ser	Trp	Gly	Ala	Pro	Pro	Leu	Arg	Asp	Arg	Ala	Arg	Pro	Gln	Asp	Glu
		275				280						285			
Val	Leu	Val	Ile	Asp	Ser	Pro	His	Asn	Ser	Arg	Ala	Gln	Phe	Pro	Ser
	290					295					300				
Thr	Ser	Gly	Gly	Ser	Gly	Tyr	Lys	Asn	Asn	Gly	Pro	Gly	Glu	Met	Arg
	305				310					315				320	
Arg	Ala	Arg	Lys	Arg	Lys	His	Thr	Ile	Arg	Cys	Ser	Tyr	Cys	Gly	Glu
				325					330					335	

Glu
 337

<210> 1209
 <211> 64
 <212>Amino acid
 <213> Homo sapiens

<400> 1209
 Ser Val Ala Cys Thr Val Pro Leu Arg Ser Met Ser Asp Pro Asp Gln
 1 5 10 15
 Asp Phe Asp Lys Glu Pro Asp Ser Asp Ser Thr Lys His Ser Thr Pro
 20 25 30
 Ser Asn Ser Ser Asn Pro Ser Gly Pro Pro Ser Pro Asn Ser Pro His
 35 40 45
 Arg Ser Gln Leu Pro Leu Glu Gly Leu Glu Gln Pro Ala Cys Asp Thr
 50 55 60 64

<210> 1210
 <211> 316
 <212>Amino acid
 <213> Homo sapiens

<400> 1210
 Tyr Ser Ala Val Glu Phe Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly
 1 5 10 15
 Asp Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys
 20 25 30
 Gly Arg Gly Arg Gly Pro Pro Ser Ser Asp Ser Glu Pro Glu Ala
 35 40 45
 Glu Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser
 50 55 60
 Ser Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg
 65 70 75 80
 Pro Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg
 85 90 95
 Lys Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys
 100 105 110
 Glu Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys
 115 120 125
 Phe Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala
 130 135 140
 Leu Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys
 145 150 155 160
 Asn Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala
 165 170 175
 Asn Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys
 180 185 190
 Ser Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys
 195 200 205
 Ala Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu
 210 215 220
 Leu Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser
 225 230 235 240
 Thr Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly

```

      245      /      {      250      '      {      255
Glu Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu
      260      265      270
Gly Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu
      275      280      285
Gly Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg
      290      295      300
Ala Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
      305      310      315 316

```

```

<210> 1211
<211> 767
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1211
Leu Ala Glu Leu Ser Ser Leu Ser Val Leu Arg Leu Ser His Asn Ser
 1      5      10      15
Ile Ser His Ile Ala Glu Gly Ala Phe Lys Gly Leu Arg Ser Leu Arg
      20      25      30
Val Leu Asp Leu Asp His Asn Glu Ile Ser Gly Thr Ile Glu Asp Thr
      35      40      45
Ser Gly Ala Phe Ser Gly Leu Asp Ser Leu Ser Lys Leu Thr Leu Phe
      50      55      60
Gly Asn Lys Ile Lys Ser Val Ala Lys Arg Ala Phe Ser Gly Leu Glu
      65      70      75      80
Gly Leu Glu His Leu Asn Leu Gly Gly Asn Ala Ile Arg Ser Val Gln
      85      90      95
Phe Asp Ala Phe Val Lys Met Lys Asn Leu Lys Glu Leu His Ile Ser
      100      105      110
Ser Asp Ser Phe Leu Cys Asp Cys Gln Leu Lys Trp Leu Pro Pro Trp
      115      120      125
Leu Ile Gly Arg Met Leu Gln Ala Phe Val Thr Ala Thr Cys Ala His
      130      135      140
Pro Glu Ser Leu Lys Gly Gln Ser Ile Phe Ser Val Pro Pro Glu Ser
      145      150      155      160
Phe Val Cys Asp Asp Phe Leu Lys Pro Gln Ile Ile Thr Gln Pro Glu
      165      170      175
Thr Thr Met Ala Met Val Gly Lys Asp Ile Arg Phe Thr Cys Ser Ala
      180      185      190
Ala Ser Ser Ser Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn
      195      200      205
Glu Val Leu Thr Asn Ala Asp Met Glu Asn Phe Val His Val His Ala
      210      215      220
Gln Asp Gly Glu Val Met Glu Tyr Thr Thr Ile Leu His Leu Arg Gln
      225      230      235      240
Val Thr Phe Gly His Glu Gly Arg Tyr Gln Cys Val Ile Thr Asn His
      245      250      255
Phe Gly Ser Thr Tyr Ser His Lys Ala Arg Leu Thr Val Asn Val Leu
      260      265      270
Pro Ser Phe Thr Lys Thr Pro His Asp Ile Thr Ile Arg Thr Thr Thr
      275      280      285
Met Ala Arg Leu Glu Cys Ala Ala Thr Gly His Pro Asn Pro Gln Ile
      290      295      300
Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro Ala Ala Arg Glu Arg
      305      310      315      320
Arg Met His Val Met Pro Asp Asp Asp Val Phe Phe Ile Thr Asp Val
      325      330      335
Lys Ile Asp Asp Ala Gly Val Tyr Ser Cys Thr Ala Gln Asn Ser Ala

```

```
<210> 1212
<211> 821
<212>Amino acid
<213> Homo sapiens
```


<400> 1212

Ala	Ala	Ala	Gly	Ala	Ala	Arg	Arg	Val	Ser	Val	Arg	Cys	Gly	Arg	Ser
1				5					10					15	
Gly	Pro	Gly	Pro	Gly	Arg	Gly	Ala	Ala	Gly	Leu	Ser	Pro	Ala	Asp	Ile
			20					25					30		
Ala	Leu	Ala	Ser	Glu	Gln	Gly	Ala	Ser	Cys	Ser	Val	Arg	Ala	Pro	Glu
		35					40					45			
Arg	Lys	Leu	Arg	Met	Lys	Leu	Leu	Trp	Gln	Ala	Lys	Met	Ser	Ser	Ile
	50					55					60				
Gln	Asp	Trp	Gly	Glu	Glu	Val	Glu	Glu	Gly	Ala	Val	Tyr	His	Val	Thr
65					70					75					80
Leu	Lys	Arg	Val	Gln	Ile	Gln	Gln	Ala	Ala	Asn	Lys	Gly	Ala	Arg	Trp
				85					90					95	
Leu	Gly	Val	Glu	Gly	Asp	Gln	Leu	Pro	Pro	Gly	His	Thr	Val	Ser	Gln
			100					105					110		
Tyr	Glu	Thr	Cys	Lys	Ile	Arg	Thr	Ile	Lys	Ala	Gly	Thr	Leu	Glu	Lys
	115						120					125			
Leu	Val	Glu	Asn	Leu	Leu	Thr	Ala	Phe	Gly	Asp	Asn	Asp	Phe	Thr	Tyr
	130					135					140				
Ile	Ser	Ile	Phe	Leu	Ser	Thr	Tyr	Arg	Gly	Phe	Ala	Ser	Thr	Lys	Glu
145					150					155					160
Val	Leu	Glu	Leu	Leu	Leu	Asp	Arg	Tyr	Gly	Asn	Leu	Thr	Ser	Pro	Asn
				165					170					175	
Cys	Glu	Glu	Asp	Gly	Ser	Gln	Ser	Ser	Ser	Glu	Ser	Lys	Met	Val	Ile
			180					185					190		
Arg	Asn	Ala	Ile	Ala	Ser	Ile	Leu	Arg	Ala	Trp	Leu	Asp	Gln	Cys	Ala
	195						200					205			
Glu	Asp	Phe	Arg	Glu	Pro	Pro	His	Phe	Pro	Cys	Leu	Gln	Lys	Leu	Leu
	210					215					220				
Asp	Tyr	Leu	Thr	Arg	Met	Met	Pro	Gly	Ser	Asp	Pro	Glu	Arg	Arg	Ala
225					230					235					240
Gln	Asn	Leu	Leu	Glu	Gln	Phe	Gln	Lys	Gln	Glu	Val	Glu	Thr	Asp	Asn
				245					250					255	
Gly	Leu	Pro	Asn	Thr	Ile	Ser	Phe	Ser	Leu	Glu	Glu	Glu	Glu	Glu	Leu
			260				265						270		
Glu	Gly	Gly	Glu	Ser	Ala	Glu	Phe	Thr	Cys	Phe	Ser	Glu	Asp	Leu	Val
		275					280					285			
Ala	Glu	Gln	Leu	Thr	Tyr	Met	Asp	Ala	Gln	Leu	Phe	Lys	Lys	Val	Val
	290					295					300				
Pro	His	His	Cys	Leu	Gly	Cys	Ile	Trp	Ser	Arg	Arg	Asp	Lys	Lys	Glu
305					310					315					320
Asn	Lys	His	Leu	Ala	Pro	Thr	Ile	Arg	Ala	Thr	Ile	Ser	Gln	Phe	Asn
				325					330					335	
Thr	Leu	Thr	Lys	Cys	Val	Val	Ser	Thr	Ile	Leu	Gly	Gly	Lys	Glu	Leu
			340					345					350		
Lys	Thr	Gln	Gln	Arg	Ala	Lys	Ile	Ile	Glu	Lys	Trp	Ile	Asn	Ile	Ala
		355					360					365			
His	Glu	Cys	Arg	Leu	Leu	Lys	Asn	Phe	Ser	Ser	Leu	Arg	Ala	Ile	Val
	370					375					380				
Ser	Ala	Leu	Gln	Ser	Asn	Ser	Ile	Tyr	Arg	Leu	Lys	Lys	Thr	Trp	Ala
385					390					395					400
Ala	Val	Pro	Arg	Asp	Arg	Met	Leu	Met	Phe	Glu	Glu	Leu	Ser	Asp	Ile
				405					410					415	
Phe	Ser	Asp	His	Asn	Asn	His	Leu	Thr	Ser	Arg	Glu	Leu	Leu	Met	Lys
			420					425					430		
Glu	Gly	Thr	Ser	Lys	Phe	Ala	Asn	Leu	Asp	Ser	Ser	Val	Lys	Glu	Asn
		435					440					445			
Gln	Lys	Arg	Thr	Gln	Arg	Arg	Leu	Gln	Leu	Gln	Lys	Asp	Met	Gly	Val
	450					455					460				
Met	Gln	Gly	Thr	Val	Pro	Tyr	Leu	Gly	Thr	Phe	Leu	Thr	Asp	Leu	Thr
465					470					475					480
Met	Leu	Asp	Thr	Ala	Leu	Gln	Asp	Tyr	Ile	Glu	Gly	Gly	Leu	Ile	Asn
				485					490					495	
Phe	Glu	Lys	Arg	Arg	Arg	Glu	Phe	Glu	Val	Ile	Ala	Gln	Ile	Lys	Leu

```

      500      505      510
Leu Gln Ser Ala Cys Asn Ser Tyr Cys Met Thr Pro Asp Gln Lys Phe
      515      520      525
Ile Gln Trp Phe Gln Arg Gln Gln Leu Leu Thr Glu Glu Glu Ser Tyr
      530      535      540
Ala Leu Ser Cys Glu Ile Glu Ala Ala Ala Asp Ala Ser Thr Thr Ser
545      550      555      560
Pro Lys Pro Trp Lys Ser Met Val Lys Arg Leu Asn Leu Leu Phe Leu
      565      570      575
Gly Ala Asp Met Ile Thr Ser Pro Thr Pro Thr Lys Glu Gln Pro Lys
      580      585      590
Ser Thr Ala Ser Gly Ser Ser Gly Glu Ser Met Asp Ser Val Ser Val
      595      600      605
Ser Ser Cys Glu Ser Asn His Ser Glu Ala Glu Glu Gly Tyr Ile Thr
610      615      620
Pro Met Asp Thr Pro Asp Glu Pro Gln Lys Lys Leu Ser Glu Ser Ser
625      630      635      640
Ser Tyr Cys Ser Ser Ile His Ser Met Asp Thr Asn Phe Leu Gln Gly
      645      650      655
Met Ser Ser Leu Ile Asn Pro Leu Ser Ser Pro Pro Ser Cys Asn Asn
      660      665      670
Asn Pro Lys Ile His Lys Arg Ser Val Ser Val Thr Ser Ile Thr Ser
      675      680      685
Thr Val Leu Pro Pro Val Tyr Asn Gln Gln Asn Glu Asp Thr Cys Ile
690      695      700
Ile Arg Ile Ser Val Glu Asp Asn Asn Gly Asn Met Tyr Lys Ser Ile
705      710      715      720
Met Leu Thr Ser Gln Asp Lys Thr Pro Ala Val Ile Gln Arg Ala Met
      725      730      735
Leu Lys His Asn Leu Asp Ser Asp Pro Ala Glu Glu Tyr Glu Leu Val
      740      745      750
Gln Val Ile Ser Glu Asp Lys Glu Leu Val Ile Pro Asp Ser Ala Asn
      755      760      765
Val Phe Tyr Ala Met Asn Ser Gln Val Asn Phe Asp Phe Ile Leu Arg
770      775      780
Lys Lys Asn Ser Met Glu Glu Gln Val Lys Leu Arg Ser Arg Thr Ser
785      790      795      800
Leu Thr Leu Pro Arg Thr Ala Lys Arg Gly Cys Trp Ser Asn Arg His
      805      810      815
Ser Lys Ile Thr Leu
      820 821

```

<210> 1213

<211> 289

<212>Amino acid

<213> Homo sapiens

<400> 1213

```

Ala Arg Glu Lys Met Asp Ser Cys Ile Glu Ala Phe Gly Thr Thr Lys
1      5      10      15
Gln Lys Arg Ala Leu Asn Thr Arg Arg Met Asn Arg Val Gly Asn Glu
      20      25      30
Ser Leu Asn Arg Ala Val Ala Lys Ala Ala Glu Thr Ile Ile Asp Thr
      35      40      45
Lys Gly Val Thr Ala Leu Val Ser Asp Ala Ile His Asn Asp Leu Gln
      50      55      60
Asp Asp Ser Leu Tyr Leu Pro Pro Cys Tyr Asp Asp Ala Ala Lys Pro
      65      70      75      80
Glu Asp Val Tyr Lys Phe Glu Asp Leu Leu Ser Pro Ala Glu Tyr Glu

```

```
<210> 1214
<211> 873
<212> Amino acid
<213> Homo sapiens
```

727

195	200	205
Ile Glu Glu Leu Ile Ala Lys Ser Lys Gln Glu Lys Arg Glu Arg Gln		
210	215	220
Ala Gln Arg Glu Asp Ala Leu Glu Leu Thr Glu Lys Leu Asp Gln Asp		
225	230	235
Trp Lys Glu Ile Gln Thr Leu Leu Ser His Lys Thr Pro Lys Ser Glu		240
	245	250
Asn Arg Asp Lys Lys Glu Lys Pro Lys Pro Asp Ala Tyr Asp Met Met		255
	260	265
Val Arg Glu Leu Gly Phe Glu Met Lys Ala Gln Pro Ser Asn Arg Met		270
	275	280
Lys Thr Glu Ala Glu Leu Ala Lys Glu Glu Gln Glu His Leu Arg Lys		285
	290	295
Leu Glu Ala Glu Arg Leu Arg Arg Met Leu Gly Lys Asp Glu Asp Glu		300
305	310	315
Asn Val Lys Lys Pro Lys His Met Ser Ala Asp Asp Leu Asn Asp Gly		320
	325	330
Phe Val Leu Asp Lys Asp Asp Arg Arg Leu Leu Ser Tyr Lys Asp Gly		335
	340	345
Lys Met Asn Val Glu Glu Asp Val Gln Glu Glu Gln Ser Lys Glu Ala		350
	355	360
Ser Asp Pro Glu Ser Asn Glu Glu Glu Gly Asp Ser Ser Gly Gly Glu		365
370	375	380
Asp Thr Glu Glu Ser Asp Ser Pro Asp Ser His Leu Asp Leu Glu Ser		385
	390	395
Asn Val Glu Ser Glu Glu Glu Asn Glu Lys Pro Ala Lys Glu Gln Arg		400
	405	410
Gln Thr Pro Gly Lys Gly Leu Ile Ser Gly Lys Glu Arg Ala Gly Lys		415
	420	425
Ala Thr Arg Asp Glu Leu Pro Tyr Thr Phe Ala Ala Pro Glu Ser Tyr		430
	435	440
Glu Glu Leu Arg Ser Leu Leu Leu Gly Arg Ser Met Glu Glu Gln Leu		445
450	455	460
Leu Val Val Glu Arg Ile Gln Lys Cys Asn His Pro Ser Leu Ala Glu		465
	470	475
Gly Asn Lys Ala Lys Leu Glu Lys Leu Phe Gly Phe Leu Leu Glu Tyr		480
	485	490
Val Gly Asp Leu Ala Thr Asp Asp Pro Pro Asp Leu Thr Val Ile Asp		495
	500	505
Lys Leu Val Val His Leu Tyr His Leu Cys Gln Met Phe Pro Glu Ser		510
	515	520
Ala Ser Asp Ala Ile Lys Phe Val Leu Arg Asp Ala Met His Glu Met		525
	530	535
Glu Glu Met Ile Glu Thr Lys Gly Arg Ala Ala Leu Pro Gly Leu Asp		540
545	550	555
Val Leu Ile Tyr Leu Lys Ile Thr Gly Leu Leu Phe Pro Thr Ser Asp		560
	565	570
Phe Trp His Pro Val Val Thr Pro Ala Leu Val Cys Leu Ser Gln Leu		575
	580	585
Leu Thr Lys Cys Pro Ile Leu Ser Leu Gln Asp Val Val Lys Gly Leu		590
	595	600
Phe Val Cys Cys Leu Phe Leu Glu Tyr Val Ala Leu Ser Gln Arg Phe		605
	610	615
Ile Pro Glu Leu Ile Asn Phe Leu Leu Gly Ile Leu Tyr Ile Ala Thr		620
625	630	635
Pro Asn Lys Ala Ser Gln Gly Ser Thr Leu Val His Pro Phe Arg Ala		640
	645	650
Leu Gly Lys Asn Ser Glu Leu Leu Val Val Ser Ala Arg Glu Asp Val		655
	660	665
Ala Thr Trp Gln Gln Ser Ser Leu Ser Leu Arg Trp Ala Ser Arg Leu		670
	675	680
Arg Ala Pro Thr Ser Thr Glu Ala Asn His Ile Arg Leu Ser Cys Leu		685
	690	695
Ala Val Gly Leu Ala Leu Leu Lys Arg Cys Val Leu Met Tyr Gly Ser		700

```

705              710              715              720
Leu Pro Ser Phe His Ala Ile Met Gly Pro Leu Arg Ala Leu Leu Thr
              725              730              735
Asp His Leu Ala Asp Cys Ser His Pro Gln Glu Leu Gln Glu Leu Cys
              740              745              750
Gln Ser Thr Leu Thr Glu Met Glu Ser Gln Lys Gln Leu Cys Arg Pro
              755              760              765
Leu Thr Cys Glu Lys Ser Lys Pro Val Pro Leu Lys Leu Phe Thr Pro
              770              775              780
Arg Leu Val Lys Val Leu Glu Phe Gly Arg Lys Gln Gly Ser Ser Lys
785              790              795              800
Glu Glu Gln Glu Arg Lys Arg Leu Ile His Lys His Lys Arg Glu Phe
              805              810              815
Lys Gly Ala Val Arg Glu Ile Arg Lys Asp Asn Gln Phe Leu Ala Arg
              820              825              830
Met Gln Leu Ser Glu Ile Met Glu Arg Asp Ala Glu Arg Lys Arg Lys
              835              840              845
Val Lys Gln Leu Phe Asn Ser Leu Ala Thr Gln Glu Gly Glu Trp Lys
850              855              860
Ala Leu Lys Arg Lys Lys Phe Lys Lys
865              870              873

```

```

<210> 1215
<211> 319
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1215
Leu Thr Lys Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly
 1              5              10              15
Gln Ser Lys Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln
              20              25              30
Lys Pro Gly Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly
              35              40              45
Tyr Lys Arg Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala
              50              55              60
Met Pro Gly Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser
              65              70              75              80
Tyr Arg Cys Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr
              85              90              95
Gln Cys Ile Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu
              100              105              110
Val Ser Pro Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr
              115              120              125
Arg Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys
              130              135              140
Gln Arg Cys Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
145              150              155              160
Ala Gly Lys Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile
              165              170              175
Gln Gly Glu Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro
              180              185              190
Lys Pro Gln Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu
              195              200              205
Asp Thr Glu Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu
210              215              220
Glu Arg Ser Val Gln Gln Ser His Pro Thr Ala Thr Thr Thr Pro Ala
225              230              235              240
Arg Pro Tyr Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg

```

```
<210> 1216
<211> 815
<212> Amino acid
<213> Homo sapiens
```

730

340	345	350
Asp Leu Leu Val Thr Glu Leu Tyr His Asp Pro Ser Asn Asp Ala Ile		
355	360	365
Thr Ala Leu Ser Val Tyr Leu Thr Pro Lys Thr Ser Val Ser Gly Asn		
370	375	380
Trp Ile Glu Ile Ala Tyr Gly Thr Ser Ser Gly Ala Val Arg Val Ile		
385	390	400
Val Gln His Pro Glu Thr Val Gly Ser Gly Pro Gln Leu Phe Gln Thr		
405	410	415
Phe Thr Val His Arg Ser Pro Val Thr Lys Ile Met Leu Ser Glu Lys		
420	425	430
His Leu Val Ser Val Cys Ala Asp Asn Asn His Val Arg Thr Trp Thr		
435	440	445
Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln Pro Gly Ser Thr Pro		
450	455	460
Leu Ala Ser Phe Lys Ile Leu Ser Leu Glu Glu Thr Glu Ser His Gly		
465	470	475
Ser Tyr Ser Ser Gly Asn Asp Ile Gly Pro Phe Gly Glu Arg Asp Asp		
485	490	495
Gln Gln Val Phe Ile Gln Lys Val Val Pro Ile Thr Asn Lys Leu Phe		
500	505	510
Val Arg Leu Ser Ser Thr Gly Lys Arg Ile Cys Glu Ile Gln Ala Val		
515	520	525
Asp Cys Thr Thr Ile Ser Ser Phe Thr Gly Arg Glu Cys Glu Gly Ser		
530	535	540
Ser Arg Met Gly Ser Arg Pro Arg Arg Tyr Leu Phe Thr Gly His Thr		
545	550	555
Asn Gly Ser Ile Gln Met Trp Asp Leu Thr Thr Ala Met Asp Met Val		
565	570	575
Asn Lys Ser Glu Asp Lys Asp Val Gly Gly Pro Thr Glu Glu Glu Leu		
580	585	590
Leu Lys Leu Leu Asp Gln Cys Asp Leu Ser Thr Ser Arg Cys Ala Thr		
595	600	605
Pro Asn Ile Ser Pro Ala Thr Ser Val Val Gln His Ser His Leu Arg		
610	615	620
Glu Ser Asn Ser Ser Leu Gln Leu Gln His His Asp Thr Thr His Glu		
625	630	635
Ala Ala Thr Tyr Gly Ser Met Arg Pro Tyr Arg Glu Ser Pro Leu Leu		
645	650	655
Ala Arg Ala Arg Thr Glu Ser Phe His Ser Tyr Arg Asp Phe Gln		
660	665	670
Thr Ile Asn Leu Asn Arg Asn Val Glu Arg Ala Val Pro Glu Asn Gly		
675	680	685
Asn Leu Gly Pro Ile Gln Ala Glu Val Lys Gly Ala Thr Gly Glu Cys		
690	695	700
Asn Ile Ser Glu Arg Lys Ser Pro Gly Val Glu Ile Lys Ser Leu Arg		
705	710	715
Glu Leu Asp Ser Gly Leu Glu Val His Lys Ile Ala Glu Gly Phe Ser		
725	730	735
Glu Ser Lys Lys Arg Ser Ser Glu Asp Glu Asn Glu Asn Lys Ile Glu		
740	745	750
Phe Arg Lys Lys Gly Gly Phe Glu Gly Gly Gly Phe Leu Gly Arg Lys		
755	760	765
Lys Val Pro Tyr Leu Ala Ser Ser Pro Ser Thr Ser Asp Gly Gly Thr		
770	775	780
Asp Ser Pro Gly Thr Ala Ser Pro Ser Pro Thr Lys Thr Thr Pro Ser		
785	790	795
Pro Arg His Lys Lys Ser Asp Ser Ser Gly Gln Glu Tyr Ser Leu		
805	810	815

<210> 1217

<211> 459

<212>Amino acid

<213> Homo sapiens

<400> 1217

```

Arg Arg Pro Thr Arg Pro Ile Leu Thr Asp Glu Leu Phe Lys Arg Thr
 1           5           10           15
Ile Gln Leu Pro His Leu Lys Thr Leu Ile Leu Asn Gly Asn Lys Leu
          20           25           30
Glu Thr Leu Ser Leu Val Ser Cys Phe Ala Asn Asn Thr Pro Leu Glu
          35           40           45
His Leu Asp Leu Ser Gln Asn Leu Leu Gln His Lys Asn Asp Glu Asn
          50           55           60
Cys Ser Trp Pro Glu Thr Val Val Asn Met Asn Leu Ser Tyr Asn Lys
          65           70           75           80
Leu Ser Asp Ser Val Phe Arg Cys Leu Pro Lys Ser Ile Gln Ile Leu
          85           90           95
Asp Leu Asn Asn Asn Gln Ile Gln Thr Val Pro Lys Glu Thr Ile His
          100          105          110
Leu Met Ala Leu Arg Glu Leu Asn Ile Ala Phe Asn Phe Leu Thr Asp
          115          120          125
Leu Pro Gly Cys Ser His Phe Ser Arg Leu Ser Val Leu Asn Ile Glu
          130          135          140
Met Asn Phe Ile Leu Ser Pro Ser Leu Asp Phe Val Gln Ser Cys Gln
          145          150          155          160
Glu Val Lys Thr Leu Asn Ala Gly Arg Asn Pro Phe Arg Cys Thr Cys
          165          170          175
Glu Leu Lys Asn Phe Ile Gln Leu Glu Thr Tyr Ser Glu Val Met Met
          180          185          190
Val Gly Trp Ser Asp Ser Tyr Thr Cys Glu Tyr Pro Leu Asn Leu Arg
          195          200          205
Gly Thr Arg Leu Lys Asp Val His Leu His Glu Leu Ser Cys Asn Thr
          210          215          220
Ala Leu Leu Ile Val Thr Ile Val Val Ile Met Leu Val Leu Gly Leu
          225          230          235          240
Ala Val Ala Phe Cys Cys Leu His Phe Asp Leu Pro Trp Tyr Leu Arg
          245          250          255
Met Leu Gly Gln Cys Thr Gln Thr Trp His Arg Val Arg Lys Thr Thr
          260          265          270
Gln Glu Gln Leu Lys Arg Asn Val Arg Phe His Ala Phe Ile Ser Tyr
          275          280          285
Ser Glu His Asp Ser Leu Trp Val Lys Asn Glu Leu Ile Pro Asn Leu
          290          295          300
Glu Lys Glu Asp Gly Ser Ile Leu Ile Cys Leu Tyr Glu Ser Tyr Phe
          305          310          315          320
Asp Pro Gly Lys Ser Ile Ser Glu Asn Ile Val Ser Phe Ile Glu Lys
          325          330          335
Ser Tyr Lys Ser Ile Phe Val Leu Ser Pro Asn Phe Val Gln Asn Glu
          340          345          350
Trp Cys His Tyr Glu Phe Tyr Phe Ala His His Asn Leu Phe His Glu
          355          360          365
Asn Ser Asp His Ile Ile Leu Ile Leu Leu Glu Pro Ile Pro Phe Tyr
          370          375          380
Cys Ile Pro Thr Arg Tyr His Lys Leu Lys Ala Leu Leu Glu Lys Lys
          385          390          395          400
Ala Tyr Leu Glu Trp Pro Lys Asp Arg Arg Lys Cys Gly Leu Phe Trp
          405          410          415
Ala Asn Leu Arg Ala Ala Ile Asn Val Asn Val Leu Ala Thr Arg Glu
          420          425          430
Met Tyr Glu Leu Gln Thr Phe Thr Glu Leu Asn Glu Glu Ser Arg Gly
          435          440          445
Ser Thr Ile Ser Leu Met Arg Thr Asp Cys Leu

```


450

455

459

<210> 1218
 <211> 366
 <212>Amino acid
 <213> Homo sapiens

<400> 1218
 Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Leu Thr Pro
 1 5 10 15
 Ser Trp Thr Ser Thr Gly Arg Met Trp Ser His Leu Asn Arg Leu Leu
 20 25 30
 Phe Trp Ser Ile Phe Ser Ser Val Thr Cys Arg Lys Ala Val Leu Asp
 35 40 45
 Cys Glu Ala Met Lys Thr Asn Glu Phe Pro Ser Pro Cys Leu Asp Ser
 50 55 60
 Lys Thr Lys Val Val Met Lys Gly Gln Asn Val Ser Met Phe Cys Ser
 65 70 75 80
 His Lys Asn Lys Ser Leu Gln Ile Thr Tyr Ser Leu Phe Arg Arg Lys
 85 90 95
 Thr His Leu Gly Thr Gln Asp Gly Lys Gly Glu Pro Ala Ile Phe Asn
 100 105 110
 Leu Ser Ile Thr Glu Ala His Glu Ser Gly Pro Tyr Lys Cys Lys Ala
 115 120 125
 Gln Val Thr Ser Cys Ser Lys Tyr Ser Arg Asp Phe Ser Phe Thr Ile
 130 135 140
 Val Asp Pro Val Thr Ser Pro Val Leu Asn Ile Met Val Ile Gln Thr
 145 150 155 160
 Glu Thr Asp Arg His Ile Thr Leu His Cys Leu Ser Val Asn Gly Ser
 165 170 175
 Leu Pro Ile Asn Tyr Thr Phe Phe Glu Asn His Val Ala Ile Ser Pro
 180 185 190
 Ala Ile Ser Lys Tyr Asp Arg Glu Pro Ala Glu Phe Asn Leu Thr Lys
 195 200 205
 Lys Asn Pro Gly Glu Glu Glu Glu Tyr Arg Cys Glu Ala Lys Asn Arg
 210 215 220
 Leu Pro Asn Tyr Ala Thr Tyr Ser His Pro Val Thr Met Pro Ser Thr
 225 230 235 240
 Gly Gly Asp Ser Cys Pro Phe Cys Leu Lys Leu Leu Leu Pro Gly Leu
 245 250 255
 Leu Leu Leu Leu Val Val Ile Ile Leu Ile Leu Ala Phe Trp Val Leu
 260 265 270
 Pro Lys Tyr Lys Thr Arg Lys Ala Met Arg Asn Asn Val Pro Arg Asp
 275 280 285
 Arg Gly Asp Thr Ala Met Glu Val Gly Ile Tyr Ala Asn Ile Leu Glu
 290 295 300
 Lys Gln Ala Lys Glu Glu Ser Val Pro Glu Val Gly Ser Arg Pro Cys
 305 310 315 320
 Val Ser Thr Ala Gln Asp Glu Ala Lys His Ser Gln Glu Leu Gln Tyr
 325 330 335
 Ala Thr Pro Val Phe Gln Glu Val Ala Pro Arg Glu Gln Glu Ala Cys
 340 345 350
 Asp Ser Tyr Lys Ser Gly Tyr Val Tyr Ser Glu Leu Asn Phe
 355 360 365 366

<210> 1219
 <211> 97
 <212>Amino acid

<213> Homo sapiens

<400> 1219

```

Phe Phe Phe Phe Glu Glu Arg Arg Thr Gly Ser His Ser Val Gly His
 1           5           10           15
Pro Arg Met Glu Tyr Ser Gly Val Ser Met Ala His Cys Ser Leu Asn
          20          25          30
Leu Leu Gly Ser Ser Asn Ser Pro Ser Ser Ala Ser Gln Asp Ala Arg
      35          40          45
Thr Thr Gly Ala Cys Gln His Ala Gln Leu Ile Gly Phe Phe Phe Phe
 50          55          60
Val Glu Thr Ala Ser Pro Gln Val Thr His Ala Gly Leu Lys His Leu
 65          70          75          80
Val Ser Arg Asn Pro Ser Ala Val Thr Ser Gln Ser Ala Arg Ile Lys
          85          90          95
Thr
97

```

<210> 1220

<211> 242

<212>Amino acid

<213> Homo sapiens

<400> 1220

```

Asn Arg Glu Gly Ala Arg Lys Ile Gln Asn Lys Trp Leu Arg Pro Ser
 1           5           10           15
Pro Arg Ser His Arg Thr Pro Glu Ser Val Ser Pro Glu Arg Tyr Ser
          20          25          30
Tyr Gly Thr Ser Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg
      35          40          45
Arg Arg Gln Ser Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu
 50          55          60
Thr Gly Ser Pro Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro
 65          70          75          80
Ser Gly Gly Ala Lys Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln
          85          90          95
Gln Gln Ser Glu Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys
      100          105          110
Asp Ile Arg Leu Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala
      115          120          125
Leu Glu Gln Gly Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln
      130          135          140
Leu Asp Val Phe Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu
      145          150          155          160
Gly Ser Val Val Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp
          165          170          175
Ala Phe Trp Gly Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg
      180          185          190
Gly Val Phe Leu Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala
      195          200          205
Val Arg Leu Leu Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg
      210          215          220
Arg Arg Leu Leu Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu
      225          230          235          240
Ala Ser

```

242

<210> 1221
 <211> 440
 <212> Amino acid
 <213> Homo sapiens

<400> 1221
 Ala Pro Asn Thr Ala Glu Leu Arg Ile Cys Arg Val Asn Lys Asn Cys
 1 5 10 15
 Gly Ser Val Arg Gly Gly Asp Glu Ile Phe Leu Leu Cys Asp Lys Val
 20 25 30
 Gln Lys Asp Asp Ile Glu Val Arg Phe Val Leu Asn Asp Trp Glu Ala
 35 40 45
 Lys Gly Ile Phe Ser Gln Ala Asp Val His Arg Gln Val Ala Ile Val
 50 55 60
 Phe Lys Thr Pro Pro Tyr Cys Lys Ala Ile Thr Glu Pro Val Thr Val
 65 70 75 80
 Lys Met Gln Leu Arg Arg Pro Ser Asp Gln Glu Val Ser Glu Ser Met
 85 90 95
 Asp Phe Arg Tyr Leu Pro Asp Glu Lys Asp Thr Tyr Gly Asn Lys Ala
 100 105 110
 Lys Lys Gln Lys Thr Thr Leu Leu Phe Gln Lys Leu Cys Gln Asp His
 115 120 125
 Val Glu Thr Gly Phe Arg His Val Asp Gln Asp Gly Leu Glu Leu Leu
 130 135 140
 Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr
 145 150 155 160
 Val Asn Phe Pro Glu Arg Pro Arg Pro Gly Leu Leu Gly Ser Ile Gly
 165 170 175
 Glu Gly Arg Tyr Phe Lys Lys Glu Pro Asn Leu Phe Ser His Asp Ala
 180 185 190
 Val Val Arg Glu Met Pro Thr Gly Val Ser Ser Gln Ala Glu Ser Tyr
 195 200 205
 Tyr Pro Ser Pro Gly Pro Ile Ser Ser Gly Leu Ser His His Ala Ser
 210 215 220
 Met Ala Pro Leu Pro Ser Ser Trp Ser Ser Val Ala His Pro Thr
 225 230 235 240
 Pro Arg Ser Gly Asn Thr Asn Pro Leu Ser Ser Phe Ser Thr Arg Thr
 245 250 255
 Leu Pro Ser Asn Ser Gln Gly Ile Pro Pro Phe Leu Arg Ile Pro Val
 260 265 270
 Gly Asn Asp Leu Asn Ala Ser Asn Ala Cys Ile Tyr Asn Asn Ala Asp
 275 280 285
 Asp Ile Val Gly Met Glu Ala Ser Ser Met Pro Ser Ala Asp Leu Tyr
 290 295 300
 Gly Ile Ser Asp Pro Asn Met Leu Ser Asn Cys Ser Val Asn Met Met
 305 310 315 320
 Thr Thr Ser Ser Asp Ser Met Gly Glu Thr Asp Asn Pro Arg Leu Leu
 325 330 335
 Ser Met Asn Leu Glu Asn Pro Ser Cys Asn Ser Val Leu Asp Pro Arg
 340 345 350
 Asp Leu Arg Gln Leu His Gln Met Ser Ser Ser Ser Met Ser Ala Gly
 355 360 365
 Ala Asn Ser Asn Thr Thr Val Phe Val Ser Gln Ser Asp Ala Phe Glu
 370 375 380
 Gly Ser Asp Phe Ser Cys Ala Asp Asn Ser Met Ile Asn Glu Ser Gly
 385 390 395 400
 Pro Ser Asn Ser Thr Asn Pro Asn Ser His Gly Phe Val Gln Asp Ser

				405					410				415		
Gln	Tyr	Ser	Gly	Ile	Gly	Ser	Met	Gln	Asn	Glu	Gln	Leu	Ser	Asp	Ser
			420					425					430		
Phe	Pro	Tyr	Glu	Phe	Phe	Gln	Val								
			435				440								

<210> 1222
 <211> 437
 <212> Amino acid
 <213> Homo sapiens

<400> 1222

Arg	Arg	Leu	Ser	Leu	Leu	Asp	Leu	Gln	Leu	Gly	Pro	Leu	Gly	Arg	Asp
1				5					10					15	
Pro	Pro	Gln	Glu	Cys	Ser	Thr	Phe	Ser	Pro	Thr	Asp	Ser	Gly	Glu	Glu
			20					25					30		
Pro	Gly	Gln	Leu	Ser	Pro	Gly	Val	Gln	Phe	Gln	Arg	Arg	Gln	Asn	Gln
			35				40						45		
Arg	Arg	Phe	Ser	Met	Glu	Asp	Val	Ser	Lys	Arg	Leu	Ser	Leu	Pro	Met
			50			55					60				
Asp	Ile	Arg	Leu	Pro	Gln	Glu	Phe	Leu	Gln	Lys	Leu	Gln	Met	Glu	Ser
65					70				75					80	
Pro	Asp	Leu	Pro	Lys	Pro	Leu	Ser	Arg	Met	Ser	Arg	Arg	Ala	Ser	Leu
				85				90						95	
Ser	Asp	Ile	Gly	Phe	Gly	Lys	Leu	Glu	Thr	Tyr	Val	Lys	Leu	Asp	Lys
			100					105					110		
Leu	Gly	Glu	Gly	Thr	Tyr	Ala	Thr	Val	Phe	Lys	Gly	Arg	Ser	Lys	Leu
			115				120					125			
Thr	Glu	Asn	Leu	Val	Ala	Leu	Lys	Glu	Ile	Arg	Leu	Glu	His	Glu	Glu
			130			135					140				
Gly	Ala	Pro	Cys	Thr	Ala	Ile	Arg	Glu	Val	Ser	Leu	Leu	Lys	Asn	Leu
145					150					155				160	
Lys	His	Ala	Asn	Ile	Val	Thr	Leu	His	Asp	Leu	Ile	His	Thr	Asp	Arg
			165					170						175	
Ser	Leu	Thr	Leu	Val	Phe	Glu	Tyr	Leu	Asp	Ser	Asp	Leu	Lys	Gln	Tyr
			180				185					190			
Leu	Asp	His	Cys	Gly	Asn	Leu	Met	Ser	Met	His	Asn	Val	Lys	Ile	Phe
		195				200					205				
Met	Phe	Gln	Leu	Leu	Arg	Gly	Leu	Ala	Tyr	Cys	His	His	Arg	Lys	Ile
						215					220				
Leu	His	Arg	Asp	Leu	Lys	Pro	Gln	Asn	Leu	Leu	Ile	Asn	Glu	Arg	Gly
225					230					235				240	
Glu	Leu	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro
			245					250						255	
Thr	Lys	Thr	Tyr	Ser	Asn	Glu	Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro
			260				265						270		
Asp	Val	Leu	Leu	Gly	Ser	Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp
		275				280					285				
Gly	Val	Gly	Cys	Ile	His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe
		290				295					300				
Pro	Gly	Ser	Thr	Val	Lys	Glu	Glu	Leu	His	Lys	Ile	Asn	Arg	Leu	Leu
305					310					315				320	
Gly	Thr	Pro	Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu
			325					330						335	
Phe	Arg	Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn
			340					345					350		
His	Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu
		355				360					365				
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Leu	Ser

```

      370              375              380
His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu Glu Asp
385              390              395              400
Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln Lys Asp Pro
      405              410              415
Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg Gly Lys Asn Arg
      420              425              430
Arg Gln Ser Ile Phe
      435              437

```

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<210> 1223
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1223
Cys Thr Pro His Gly Ser Ser Ser Ser Trp Lys Ile Pro Leu Trp Pro
  1              5              10              15
Arg His Met Ser Pro Leu His Ser Cys Leu Pro Val Gly Thr Ser Thr
      20              25              30
Ser Ser Gly Pro Leu Ala Val Pro Arg Asp Cys Phe His Leu Cys Cys
      35              40              45
Leu Trp Gly Gln Leu Leu Leu Ile Ser Cys Pro Leu Ala Cys Gly Gln
      50              55              60
Gly Cys Arg Val Ala Gly Gly Gln Gln His Val Pro Gly Gln Ala Leu
      65              70              75              80
Gly Thr Leu Ser Pro Leu Val Ser Leu Leu Thr Trp Ala Gly Pro Ser
      85              90              95
Leu Asp Trp Pro His Pro Gly Ser Leu Val Thr Pro Arg Cys Pro Ile
      100              105              110
Leu Pro Ala Val Pro Val Leu Val Lys Gly Leu Gly Gly Trp Pro Pro
      115              120              125
Thr Arg Pro Ser Arg Ala Ala Pro Val Ser Gly Pro Trp Asp Gln Leu
      130              135              140
Pro Tyr Phe Pro Gly Leu
      145              150

```

```

<210> 1224
<211> 276
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1224
Leu Ile Ser Pro Val Trp Gly Asn Ile Gln Arg Ser Arg Ser Val Pro
  1              5              10              15
Leu Phe Pro Ser Gly Leu Val Leu Gly Gly Ile Trp Ala Arg Gly Pro
      20              25              30
Leu Leu Ala Leu Leu Ala Ser Phe Asn Ile Ile Ser Val Leu Asn Ala
      35              40              45
Glu Cys Tyr Leu Lys Gln Ile Leu His Pro Thr Ser His Phe Thr Val
      50              55              60
Ser Glu Thr Pro Pro Leu Ser Gly Asn Asp Thr Asp Ser Leu Ser Cys
      65              70              75              80
Asp Ser Gly Ser Ser Ala Thr Ser Thr Pro Cys Val Ser Arg Leu Val

```

```
<210> 1225
<211> 270
<212> Amino acid
<213> Homo sapiens
```

738

210		215		220
Gly Thr Lys Gly Leu Lys Lys Val Val His Glu Thr Pro Ala Ala Ser				
225		230		235
Lys Thr Val Phe Phe Phe Ser Ser Pro Gly Asn Asn Asn Gly Thr				240
	245		250	255
Ser Ile Glu Asp Gly Gln Ile Pro Glu Ile Ile Phe Tyr Thr				
	260		265	270

<210> 1226
 <211> 273
 <212>Amino acid
 <213> Homo sapiens

<400> 1226

Ser Val Trp Trp Asn Ser Glu Val Lys Asp Trp Met Gln Lys Lys Arg				
1	5	10	15	
Arg Gly Leu Arg Asn Ser Arg Ala Thr Ala Gly Asp Ile Ala His Tyr				
	20	25	30	
Tyr Arg Asp Tyr Val Val Lys Lys Gly Leu Gly His Asn Phe Val Ser				
	35	40	45	
Gly Ala Val Val Thr Ala Val Glu Trp Gly Thr Pro Asp Pro Ser Ser				
50	55	60		
Cys Gly Ala Gln Asp Ser Ser Pro Leu Phe Gln Val Ser Gly Phe Leu				
65	70	75	80	
Thr Arg Asn Gln Ala Gln Gln Pro Phe Ser Leu Trp Ala Arg Asn Val				
	85	90	95	
Val Leu Ala Thr Gly Thr Phe Asp Ser Pro Ala Arg Leu Gly Ile Pro				
	100	105	110	
Gly Glu Ala Leu Pro Phe Ile His His Glu Leu Ser Ala Leu Glu Ala				
	115	120	125	
Ala Thr Arg Val Gly Ala Val Thr Pro Ala Ser Asp Pro Val Leu Ile				
	130	135	140	
Ile Gly Ala Gly Leu Ser Ala Ala Asp Ala Val Leu Tyr Ala Arg His				
145	150	155	160	
Tyr Asn Ile Pro Val Ile His Ala Phe Arg Arg Ala Val Asp Asp Pro				
	165	170	175	
Gly Leu Val Phe Asn Gln Leu Pro Lys Met Leu Tyr Pro Glu Tyr His				
	180	185	190	
Lys Val His Gln Met Met Arg Glu Gln Ser Ile Leu Ser Pro Ser Pro				
	195	200	205	
Tyr Glu Gly Tyr Arg Ser Leu Pro Arg His Gln Leu Leu Cys Phe Lys				
	210	215	220	
Glu Asp Cys Gln Ala Val Phe Gln Asp Leu Glu Gly Val Glu Lys Val				
225	230	235	240	
Phe Gly Val Ser Leu Val Leu Val Leu Ile Gly Ser His Pro Asp Leu				
	245	250	255	
Ser Phe Leu Pro Gly Ala Gly Leu Thr Leu Gln Trp Ile Leu Thr Ser				
	260	265	270	

Arg
 273

<210> 1227
 <211> 86
 <212>Amino acid
 <213> Homo sapiens

<400> 1227

```

Lys Leu Arg Pro Phe Ile Phe Ser Asn Gln Ser Leu Trp Leu His Ser
 1           5           10           15
Tyr Glu Gly Ala Glu Leu Glu Lys Thr Phe Ile Lys Gly Ser Trp Ala
          20           25           30
Thr Phe Trp Val Lys Val Ala Ser Cys Trp Ala Cys Val Leu Leu Tyr
          35           40           45
Leu Gly Leu Leu Leu Ala Pro Leu Cys Trp Pro Pro Thr Gln Lys Pro
          50           55           60
Gln Pro Leu Ile Leu Arg Arg Arg Arg His Arg Ile Ile Ser Pro Asp
          65           70           75           80
Asn Lys Tyr Pro Pro Val
          85 86

```

<210> 1228

<211> 249

<212>Amino acid

<213> Homo sapiens

<400> 1228

```

Gln Leu Ile His Leu Ser His Gly Tyr Gln Ile His Trp Thr Asp Tyr
 1           5           10           15
Tyr Asn Val Gly Thr Gly Arg Pro Glu Phe Gly Thr Arg Ala Ala His
          20           25           30
Lys Ser Leu Ala Gly Ala Glu Leu Lys Thr Leu Lys Asp Phe Val Thr
          35           40           45
Val Leu Ala Lys Leu Phe Pro Gly Arg Pro Pro Val Lys Lys Leu Leu
          50           55           60
Glu Met Leu Gln Glu Trp Leu Ala Ser Leu Pro Leu Asp Arg Ile Pro
          65           70           75           80
Tyr Asn Ala Val Leu Asp Leu Val Asn Asn Lys Met Arg Ile Ser Gly
          85           90           95
Ile Phe Leu Thr Asn His Ile Lys Trp Val Gly Cys Gln Gly Ser Arg
          100          105          110
Ser Glu Leu Arg Gly Tyr Pro Cys Ser Leu Trp Lys Leu Phe His Thr
          115          120          125
Leu Thr Val Glu Ala Ser Thr His Pro Asp Ala Leu Val Gly Thr Gly
          130          135          140
Phe Glu Asp Asp Pro Gln Ala Val Leu Gln Thr Met Arg Arg Tyr Val
          145          150          155          160
His Thr Phe Phe Gly Cys Lys Glu Cys Gly Glu His Phe Glu Glu Met
          165          170          175
Ala Lys Glu Ser Met Asp Ser Val Lys Thr Pro Asp Gln Ala Ile Leu
          180          185          190
Trp Leu Trp Lys Lys His Asn Met Val Asn Gly Arg Leu Ala Gly Glu
          195          200          205
Lys Pro Leu Gly Met Gly Gly Ser Ala Arg Ala Glu Gly Gly Pro Gly
          210          215          220
Pro Gly Thr Ala Arg Thr Ala Arg Leu Pro Trp Gly Leu Ser Leu Ser
          225          230          235          240
Phe Ala Ala Ser Cys His Pro Leu Cys
          245          249

```

<210> 1229

<211> 800

<212>Amino acid

<213> Homo sapiens

<400> 1229

```

His Gly Gly Ala Thr Phe Ile Asn Ala Phe Val Thr Thr Pro Met Cys
 1          5          10          15
Cys Pro Ser Arg Ser Ser Met Leu Thr Gly Lys Tyr Val His Asn His
          20          25          30
Asn Val Tyr Thr Asn Asn Glu Asn Cys Ser Ser Pro Ser Trp Gln Ala
          35          40          45
Met His Glu Pro Arg Thr Phe Ala Val Tyr Leu Asn Asn Thr Gly Tyr
          50          55          60
Arg Thr Ala Phe Phe Gly Lys Tyr Leu Asn Glu Tyr Asn Gly Ser Tyr
          65          70          75          80
Ile Pro Pro Gly Trp Arg Glu Trp Leu Gly Leu Ile Lys Asn Ser Arg
          85          90          95
Phe Tyr Asn Tyr Thr Val Cys Arg Asn Gly Ile Lys Glu Lys His Gly
          100          105          110
Phe Asp Tyr Ala Lys Asp Tyr Phe Thr Asp Leu Ile Thr Asn Glu Ser
          115          120          125
Ile Asn Tyr Phe Lys Met Ser Lys Arg Met Tyr Pro His Arg Pro Val
          130          135          140
Met Met Val Ile Ser His Ala Glu Pro His Gly Pro Glu Asp Ser Ala
          145          150          155          160
Pro Gln Phe Ser Lys Leu Tyr Pro Asn Ala Ser Gln His Ile Thr Pro
          165          170          175
Ser Tyr Asn Tyr Ala Pro Asn Met Asp Lys His Trp Ile Met Gln Tyr
          180          185          190
Thr Gly Pro Met Leu Pro Ile His Met Glu Phe Thr Asn Ile Leu Gln
          195          200          205
Arg Lys Arg Leu Gln Thr Leu Met Ser Val Asp Asp Ser Val Glu Arg
          210          215          220
Leu Tyr Asn Met Leu Val Glu Thr Gly Glu Leu Glu Asn Thr Tyr Ile
          225          230          235          240
Ile Tyr Thr Ala Asp His Gly Tyr His Ile Gly Gln Phe Gly Leu Val
          245          250          255
Lys Gly Lys Ser Met Pro Tyr Asp Phe Asp Ile Arg Val Pro Phe Phe
          260          265          270
Ile Arg Gly Pro Ser Val Glu Pro Gly Ser Ile Val Pro Gln Ile Val
          275          280          285
Leu Asn Ile Asp Leu Ala Pro Thr Ile Leu Asp Ile Ala Gly Leu Asp
          290          295          300
Thr Pro Pro Asp Val Asp Gly Lys Ser Val Leu Lys Leu Leu Asp Pro
          305          310          315          320
Glu Lys Pro Gly Asn Arg Phe Arg Thr Asn Lys Lys Ala Lys Ile Trp
          325          330          335
Arg Asp Thr Phe Leu Val Glu Arg Gly Lys Phe Leu Arg Lys Lys Glu
          340          345          350
Glu Ser Ser Lys Asn Ile Gln Gln Ser Asn His Leu Pro Lys Tyr Glu
          355          360          365
Arg Val Lys Glu Leu Cys Gln Gln Ala Arg Tyr Gln Thr Ala Cys Glu
          370          375          380
Gln Pro Gly Gln Lys Trp Gln Cys Ile Glu Asp Thr Ser Gly Lys Leu
          385          390          395          400
Arg Ile His Lys Cys Lys Gly Pro Ser Asp Leu Leu Thr Val Arg Gln
          405          410          415
Ser Thr Arg Asn Leu Tyr Ala Arg Gly Phe His Asp Lys Asp Lys Glu
          420          425          430
Cys Ser Cys Arg Glu Ser Gly Tyr Arg Ala Ser Arg Ser Gln Arg Lys
          435          440          445
Ser Gln Arg Gln Phe Leu Arg Asn Gln Gly Thr Pro Lys Tyr Lys Pro

```

```

      450              455              460
Arg Phe Val His Thr Arg Gln Thr Arg Ser Leu Ser Val Glu Phe Glu
465              470              475              480
Gly Glu Ile Tyr Asp Ile Asn Leu Glu Glu Glu Glu Leu Gln Val
      485              490              495
Leu Gln Pro Arg Asn Ile Ala Lys Arg His Asp Glu Gly His Lys Gly
      500              505              510
Pro Arg Asp Leu Gln Ala Ser Ser Gly Gly Asn Arg Gly Arg Met Leu
      515              520              525
Ala Asp Ser Ser Asn Ala Val Gly Pro Pro Thr Thr Val Arg Val Thr
      530              535              540
His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu Arg Glu
545              550              555              560
Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr Ile Asp
      565              570              575
Glu Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg Glu Val
      580              585              590
Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys Ser Lys
      595              600              605
Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu Lys Leu
      610              615              620
Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val Asp Ser
625              630              635              640
Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys Glu Arg
      645              650              655
Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro Gly
      660              665              670
Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro Phe
      675              680              685
Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn Thr
      690              695              700
Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe Cys
705              710              715              720
Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp Pro
      725              730              735
Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu Asn
      740              745              750
Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly Tyr Lys
      755              760              765
Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys Asp Gly
      770              775              780
Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Asp Gly Trp Glu Gly
785              790              795              800

```

<210> 1230

<211> 698

<212>Amino acid

<213> Homo sapiens

<400> 1230

```

His Leu Leu Ile Ala Gln Glu Leu Ala Asp Arg Val Gly Glu Gly Arg
1              5              10              15
Ala Cys Trp Ser Leu Gly Asn Ala Tyr Val Ser Met Gly Arg Pro Ala
      20              25              30
Gln Ala Leu Thr Phe Ala Lys Lys His Leu Gln Ile Ser Gln Glu Ile
      35              40              45
Gly Asp Arg His Gly Glu Leu Thr Ala Arg Met Asn Val Ala Gln Leu

```

50	55	60
Gln Leu Val Leu Gly	Arg Leu Thr Ser Pro Ala	Ala Ser Glu Lys Pro
65	70	75
Asp Leu Ala Gly Tyr	Glu Ala Gln Gly Ala Arg	Pro Lys Arg Thr Gln
85	90	95
Arg Leu Ser Ala Glu	Thr Trp Asp Leu Leu Arg	Leu Pro Leu Glu Arg
100	105	110
Glu Gln Asn Gly Asp	Ser His His Ser Gly Asp	Trp Arg Gly Pro Ser
115	120	125
Arg Asp Ser Leu Pro	Leu Pro Val Arg Ser Arg	Lys Tyr Gln Glu Gly
130	135	140
Pro Asp Ala Glu Arg	Arg Pro Arg Glu Gly Ser	His Ser Pro Leu Asp
145	150	155
Ser Ala Asp Val Arg	Val His Val Pro Arg Thr	Ser Ile Pro Arg Ala
165	170	175
Pro Ser Ser Asp Glu	Glu Cys Phe Phe Asp Leu	Leu Thr Lys Phe Gln
180	185	190
Ser Ser Arg Met Asp	Asp Gln Arg Cys Pro Leu	Asp Asp Gly Gln Ala
195	200	205
Gly Ala Ala Glu Ala	Thr Ala Ala Pro Thr Leu	Glu Asp Arg Ile Ala
210	215	220
Gln Pro Ser Met Thr	Ala Ser Pro Gln Thr Glu	Glu Phe Phe Asp Leu
225	230	235
Ile Ala Ser Ser Gln	Ser Arg Arg Leu Asp Asp	Gln Arg Ala Ser Val
245	250	255
Gly Ser Leu Pro Gly	Leu Arg Ile Thr His Ser	Asn Ala Gly His Leu
260	265	270
Arg Gly His Gly Glu	Pro Gln Glu Pro Gly Asp	Asp Phe Phe Asn Met
275	280	285
Leu Ile Lys Tyr Gln	Ser Ser Arg Ile Asp Asp	Gln Arg Cys Pro Pro
290	295	300
Pro Asp Val Leu Pro	Arg Gly Pro Thr Met Pro	Asp Glu Asp Phe Phe
305	310	315
Ser Leu Ile Gln Arg	Val Gln Ala Lys Arg Met	Asp Glu Gln Arg Val
325	330	335
Asp Leu Ala Gly Gly	Pro Gly Ala Gly Gly Arg	Arg Pro Ala Arg Ala
340	345	350
Pro Ala Ala Val Pro	Ala Trp Cys Glu Leu Arg	Pro Cys Ala His Arg
355	360	365
Gln Ala His Pro Ala	Pro Thr Pro Gly Arg Arg	Ser His Ser His Ser
370	375	380
His Val Leu Pro Arg	Pro Leu Pro Arg Thr Gly	Thr Gly His Ala Ala
385	390	395
Pro Arg Pro Pro Arg	Pro Arg Ala Thr Gly Ser	Gly Gln Ala Ala Arg
405	410	415
Gly Gly Arg Ala Cys	Phe His Pro Gly Leu Ala	Pro Met Ala Leu Ser
420	425	430
Phe Leu Pro Ser Ala	Pro Ala Ala Gly Arg Thr	Gly Pro Ser Ala Cys
435	440	445
Arg Pro Arg Pro Gly	Ala Val Arg Leu Pro His	Pro Leu Pro Gln Ala
450	455	460
Leu Pro Val Leu Pro	Cys Pro Ala Lys Cys Glu	Thr Leu Leu Ser Pro
465	470	475
Ser Pro Ser Pro Lys	Val Ser Leu Ser Arg Leu	Leu Gly Pro Pro Arg
485	490	495
Thr Gly Pro Cys Ser	Val Pro Pro Glu Leu Val	Leu Gly Trp Pro Cys
500	505	510
Asp Arg His Ala Pro	Pro Leu Gln Leu Arg Pro	Gly Ala Gly Leu Pro
515	520	525
Pro Ser Leu Ser Pro	His Ser Pro Ala Arg Gly	Gln Gln Pro Gln Lys
530	535	540
Ala Pro Gln Thr Thr	His Gly Arg Pro Gly Cys	Ser Gly Ser Pro Glu
545	550	555
Val Pro Pro Ala Glu	Ser Gln Gly Pro Ala Gly	Ala Ser Thr Gly Ala

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          565          570          575
Gly Pro Ile Ser Lys Ala Glu Gly Met Ala Gly His Glu Leu Arg His
          580          585          590
Ser Lys Thr Pro Ser Gln Glu Lys Gly Gln Gly Leu Val Leu Gly Met
          595          600          605
Leu Thr Gly Ser Lys Ser Ser Ala Gln Ser Gly Trp Glu Val Ala Pro
          610          615          620
Gly Ser Val Thr Leu Thr Gln Val Gly Gly Trp Ser Val Glu Ala Gly
          625          630          635          640
Glu Ala Ser Leu Ser Ser Thr Leu Gln Thr Pro His Met Arg Thr Pro
          645          650          655
Leu Leu Pro Pro Ala Gly Gly Asp Asp Ile Thr Ala Leu Ser Met Gly
          660          665          670
Arg Gly Leu Thr Gly His Gln Val Arg Asp Pro Arg Thr Gly Arg Thr
          675          680          685
Cys Trp Ser Leu Arg Trp Ala Pro Gly Ala
          690          695          698

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<210> 1231
 <211> 131
 <212>Amino acid
 <213> Homo sapiens

```

          <400> 1231
Asn Ser Ala Ala Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro
  1          5          10          15
Val Val Tyr Leu Leu Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro
          20          25          30
Ile Ser Gly His Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His
          35          40          45
Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val
          50          55          60
Gly Tyr His Val Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn
          65          70          75          80
Leu Pro Leu Val Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro
          85          90          95
Gln His His Ser Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp
          100          105          110
Ser Leu Gly Pro Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys
          115          120          125
Asp Gly Leu
          130 131

```

<210> 1232
 <211> 71
 <212>Amino acid
 <213> Homo sapiens

```

          <400> 1232
Gln Glu Ser Gly Phe Ser Cys Lys Gly Pro Gly Gln Asn Val Ala Val
  1          5          10          15
Thr Arg Ala His Pro Asp Ser Gln Gly Arg Arg Arg Pro Glu Arg
          20          25          30
Gly Ala Arg Gly Gly Gln Val Phe Tyr Asn Ser Glu Tyr Gly Glu Leu

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          35          40          45
Ser Glu Pro Ser Glu Glu Asp His Cys Ser Pro Ser Ala Arg Val Thr
      50          55          60
Phe Phe Thr Asp Asn Ser Tyr
      65          70  71

```

<210> 1233
 <211> 146
 <212>Amino acid
 <213> Homo sapiens

```

          <400> 1233
Val Ile Val His Ala Arg Pro Ile Arg Thr Arg Ala Ser Lys Tyr Tyr
  1          5          10          15
Ile Pro Glu Ala Val Tyr Gly Leu Pro Ala Tyr Pro Ala Tyr Ala Gly
      20          25          30
Gly Gly Gly Phe Val Leu Ser Gly Ala Thr Leu His Arg Leu Ala Gly
      35          40          45
Ala Cys Ala Gln Val Glu Leu Phe Pro Ile Asp Asp Val Phe Leu Gly
      50          55          60
Met Cys Leu Gln Arg Leu Arg Leu Thr Pro Glu Pro His Pro Ala Phe
      65          70          75          80
Arg Thr Phe Gly Ile Pro Gln Pro Ser Ala Ala Pro His Leu Ser Thr
      85          90          95
Phe Asp Pro Cys Phe Tyr Arg Glu Leu Val Val Val His Gly Leu Ser
      100          105          110
Ala Ala Asp Ile Trp Leu Met Trp Arg Leu Leu His Gly Pro His Gly
      115          120          125
Pro Ala Cys Ala His Pro Gln Pro Val Ala Ala Gly Pro Phe Gln Trp
      130          135          140
Asp Ser
145 146

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<210> 1234
 <211> 299
 <212>Amino acid
 <213> Homo sapiens

```

          <400> 1234
Met Ala Ser Ala Ala Cys Ser Met Asp Pro Ile Asp Ser Phe Glu Leu
  1          5          10          15
Leu Asp Leu Leu Phe Asp Arg Gln Asp Gly Ile Leu Arg His Val Glu
      20          25          30
Leu Gly Glu Gly Trp Gly His Val Lys Asp Gln Val Leu Pro Asn Pro
      35          40          45
Asp Ser Asp Asp Phe Leu Ser Ser Ile Leu Gly Ser Gly Asp Ser Leu
      50          55          60
Pro Ser Ser Pro Leu Trp Ser Pro Glu Gly Ser Asp Ser Gly Ile Ser
      65          70          75          80
Glu Asp Leu Pro Ser Asp Pro Gln Asp Thr Pro Pro Arg Ser Gly Pro
      85          90          95
Ala Thr Ser Pro Ala Gly Cys His Pro Ala Gln Pro Gly Lys Gly Pro
      100          105          110
Cys Leu Ser Tyr His Pro Gly Asn Ser Cys Ser Thr Thr Thr Pro Gly

```

```

      115      120      125
Pro Val Ile Gln Gln Gln His His Leu Gly Ala Ser Tyr Leu Leu Arg
  130      135      140
Pro Gly Ala Gly His Cys Gln Glu Leu Val Leu Thr Glu Asp Glu Lys
  145      150      155      160
Lys Leu Leu Ala Lys Glu Gly Ile Thr Leu Pro Thr Gln Leu Pro Leu
      165      170      175
Thr Lys Tyr Glu Glu Arg Val Leu Lys Lys Ile Arg Arg Lys Ile Arg
      180      185      190
Asn Lys Gln Ser Ala Gln Glu Ser Arg Lys Lys Lys Lys Glu Tyr Ile
      195      200      205
Asp Gly Leu Glu Thr Arg Ser Cys Cys Cys Pro Leu Pro Ser Ser Ser
  210      215      220
Ser Pro Pro Ser Ala Leu Leu Ala Pro Thr Lys Pro Arg Ala Leu Gly
  225      230      235      240
Thr Leu Arg Leu Tyr Glu Cys Ser Pro Glu Leu Cys Thr Thr Met Leu
      245      250      255
Pro Pro Ala Trp Leu Leu Met Leu Cys Gln Ala Pro Arg Pro Gln Asp
      260      265      270
Pro Asp Pro Arg Leu Thr Gln Pro Glu Lys Ser Leu Gln Glu Ala Pro
      275      280      285
Gly Gln Thr Gly Ala Ser Arg Thr Pro Arg Thr
  290      295      299

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<210> 1235
<211> 1098
<212> Amino acid
<213> Homo sapiens

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      <400> 1235
Ala Arg Gly Arg Arg Ser Arg Pro Val Trp Ala Ala Ser Trp Gly Gly
  1      5      10      15
Arg Gly Arg Pro Ala Ala Arg Arg Arg Pro Arg Gly Leu Ala Ala Thr
      20      25      30
Met Gly Phe Glu Leu Asp Arg Phe Asp Gly Asp Val Asp Pro Asp Leu
      35      40      45
Lys Cys Ala Leu Cys His Lys Val Leu Glu Asp Pro Leu Thr Thr Pro
      50      55      60
Cys Gly His Val Phe Cys Ala Gly Cys Val Leu Pro Trp Val Val Gln
      65      70      75      80
Glu Gly Ser Cys Pro Ala Arg Cys Arg Gly Arg Leu Ser Ala Lys Glu
      85      90      95
Leu Asn His Val Leu Pro Leu Lys Arg Leu Ile Leu Lys Leu Asp Ile
      100      105      110
Lys Cys Ala Tyr Ala Thr Arg Gly Cys Gly Arg Val Val Lys Leu Gln
      115      120      125
Gln Leu Pro Glu His Leu Glu Arg Cys Asp Phe Ala Pro Ala Arg Cys
      130      135      140
Arg His Ala Gly Cys Gly Gln Val Leu Leu Arg Arg Asp Val Glu Ala
  145      150      155      160
His Met Arg Asp Ala Cys Asp Ala Arg Pro Val Gly Arg Cys Gln Glu
      165      170      175
Gly Cys Gly Leu Pro Leu Thr His Gly Glu Gln Arg Ala Gly Gly His
      180      185      190
Cys Cys Ala Arg Ala Leu Arg Ala His Asn Gly Ala Leu Gln Ala Arg
      195      200      205
Leu Gly Ala Leu His Lys Ala Leu Lys Lys Glu Ala Leu Arg Ala Gly
  210      215      220
Lys Arg Glu Lys Ser Leu Val Ala Gln Leu Ala Ala Ala Gln Leu Glu

```

225		230		235		240									
Leu	Gln	Met	Thr	Ala	Leu	Arg	Tyr	Gln	Lys	Lys	Phe	Thr	Glu	Tyr	Ser
				245					250						255
Ala	Arg	Leu	Asp	Ser	Leu	Ser	Arg	Cys	Val	Ala	Ala	Pro	Pro	Gly	Gly
			260					265						270	
Lys	Gly	Glu	Glu	Thr	Lys	Ser	Leu	Thr	Leu	Val	Leu	His	Arg	Asp	Ser
		275					280					285			
Gly	Ser	Leu	Gly	Phe	Asn	Ile	Ile	Gly	Gly	Arg	Pro	Ser	Val	Asp	Asn
	290				295					300					
His	Asp	Gly	Ser	Ser	Ser	Glu	Gly	Ile	Phe	Val	Ser	Lys	Ile	Val	Asp
305					310					315				320	
Ser	Gly	Pro	Ala	Ala	Lys	Glu	Gly	Gly	Leu	Gln	Ile	His	Asp	Arg	Ile
			325					330						335	
Ile	Glu	Val	Asn	Gly	Arg	Asp	Leu	Ser	Arg	Ala	Thr	His	Asp	Gln	Ala
			340					345					350		
Val	Glu	Ala	Phe	Lys	Thr	Ala	Lys	Glu	Pro	Ile	Val	Val	Gln	Val	Leu
	355						360					365			
Arg	Arg	Thr	Pro	Arg	Thr	Lys	Met	Phe	Thr	Pro	Pro	Ser	Glu	Ser	Gln
	370					375					380				
Leu	Val	Asp	Thr	Gly	Thr	Gln	Thr	Asp	Ile	Thr	Phe	Glu	His	Ile	Met
385					390					395				400	
Ala	Leu	Thr	Lys	Met	Ser	Ser	Pro	Ser	Pro	Pro	Val	Leu	Asp	Pro	Tyr
			405						410					415	
Leu	Leu	Pro	Glu	Glu	His	Pro	Ser	Ala	His	Glu	Tyr	Tyr	Asp	Pro	Asn
		420						425					430		
Asp	Tyr	Ile	Gly	Asp	Ile	His	Gln	Glu	Met	Asp	Arg	Glu	Glu	Leu	Glu
	435					440						445			
Leu	Glu	Glu	Val	Asp	Leu	Tyr	Arg	Met	Asn	Ser	Gln	Asp	Lys	Leu	Gly
	450				455						460				
Leu	Thr	Val	Cys	Tyr	Arg	Thr	Asp	Asp	Glu	Asp	Asp	Ile	Gly	Ile	Tyr
465				470					475					480	
Ile	Ser	Glu	Ile	Asp	Pro	Asn	Ser	Ile	Ala	Ala	Lys	Asp	Gly	Arg	Ile
			485						490					495	
Arg	Glu	Gly	Asp	Arg	Ile	Ile	Gln	Ile	Asn	Gly	Ile	Glu	Val	Gln	Asn
	500						505						510		
Arg	Glu	Glu	Ala	Val	Ala	Leu	Leu	Thr	Ser	Glu	Glu	Asn	Lys	Asn	Phe
	515					520						525			
Ser	Leu	Leu	Ile	Ala	Arg	Ala	Glu	Leu	Gln	Leu	Asp	Glu	Gly	Trp	Met
	530					535					540				
Asp	Asp	Asp	Arg	Asn	Asp	Phe	Leu	Asp	Asp	Leu	His	Met	Asp	Met	Leu
545				550						555					560
Glu	Glu	Gln	His	His	Gln	Ala	Met	Gln	Phe	Thr	Ala	Ser	Val	Leu	Gln
			565						570					575	
Gln	Lys	Lys	His	Asp	Glu	Asp	Gly	Gly	Thr	Thr	Asp	Thr	Ala	Thr	Ile
	580						585						590		
Leu	Ser	Asn	Gln	His	Glu	Lys	Asp	Ser	Gly	Val	Gly	Arg	Thr	Asp	Glu
	595					600						605			
Ser	Thr	Arg	Asn	Asp	Glu	Ser	Ser	Glu	Gln	Glu	Asn	Asn	Gly	Asp	Asp
	610					615					620				
Ala	Thr	Ala	Ser	Ser	Asn	Pro	Leu	Ala	Gly	Gln	Arg	Lys	Leu	Thr	Cys
625					630					635				640	
Ser	Gln	Asp	Thr	Leu	Gly	Ser	Gly	Asp	Leu	Pro	Phe	Ser	Asn	Lys	Ser
			645					650						655	
Phe	Ile	Ser	Pro	Glu	Cys	Thr	Gly	Ala	Ala	Tyr	Leu	Gly	Ile	Pro	Val
	660						665						670		
Asp	Glu	Cys	Glu	Arg	Phe	Arg	Glu	Leu	Leu	Glu	Leu	Lys	Cys	Gln	Val
	675					680						685			
Lys	Ser	Ala	Thr	Pro	Tyr	Gly	Leu	Tyr	Tyr	Pro	Ser	Gly	Pro	Leu	Asp
	690					695					700				
Ala	Gly	Lys	Ser	Asp	Pro	Glu	Ser	Val	Asp	Lys	Glu	Leu	Glu	Leu	Leu
705					710					715				720	
Asn	Glu	Glu	Leu	Arg	Ser	Ile	Glu	Leu	Glu	Cys	Leu	Ser	Ile	Val	Arg
			725						730					735	
Ala	His	Lys	Met	Gln	Gln	Leu	Lys	Glu	Gln	Tyr	Arg	Glu	Ser	Trp	Met

740 745 750
 Leu His Asn Ser Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Val Arg
 755 760 765
 Arg His Glu Leu Ser Asp Ile Thr Glu Leu Pro Glu Lys Ser Asp Lys
 770 775 780
 Asp Ser Ser Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr Pro
 785 790 795 800
 Leu Thr Leu Glu Ile Ser Pro Asp Asn Ser Leu Arg Arg Ala Ala Glu
 805 810 815
 Gly Ile Ser Cys Pro Ser Ser Glu Gly Ala Val Gly Thr Thr Glu Ala
 820 825 830
 Tyr Gly Pro Ala Ser Lys Asn Leu Leu Ser Ile Thr Glu Asp Pro Glu
 835 840 845
 Val Gly Thr Pro Thr Tyr Ser Pro Ser Leu Lys Glu Leu Asp Pro Asn
 850 855 860
 Gln Pro Leu Glu Ser Lys Glu Arg Arg Ala Ser Asp Gly Ser Arg Ser
 865 870 875 880
 Pro Thr Pro Ser Gln Lys Leu Gly Ser Ala Tyr Leu Pro Ser Tyr His
 885 890 895
 His Ser Pro Tyr Lys His Ala His Ile Pro Ala His Ala Gln His Tyr
 900 905 910
 Gln Ser Tyr Met Gln Leu Ile Gln Gln Lys Ser Ala Val Glu Tyr Ala
 915 920 925
 Gln Ser Gln Met Ser Leu Val Ser Met Cys Lys Asp Leu Ser Ser Pro
 930 935 940
 Thr Pro Ser Glu Pro Arg Met Glu Trp Lys Val Lys Ile Arg Ser Asp
 945 950 955 960
 Gly Thr Arg Tyr Ile Thr Lys Arg Pro Val Arg Asp Arg Leu Leu Arg
 965 970 975
 Glu Arg Ala Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp
 980 985 990
 Asp Asp Ala Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu
 995 1000 1005
 Glu Arg Lys Gln His Leu Val Lys Ala Lys Glu Gln Arg Arg Arg Arg
 1010 1015 1020
 Glu Phe Met Met Gln Ser Arg Leu Asp Cys Leu Lys Glu Gln Gln Ala
 1025 1030 1035 1040
 Ala Asp Asp Arg Lys Glu Met Asn Ile Leu Glu Leu Ser His Lys Lys
 1045 1050 1055
 Met Met Lys Lys Arg Asn Lys Lys Ile Phe Asp Asn Trp Met Thr Ile
 1060 1065 1070
 Gln Glu Leu Leu Thr His Gly Thr Lys Ser Pro Asp Gly Thr Arg Val
 1075 1080 1085
 Tyr Asn Ser Phe Leu Ser Val Thr Thr Val
 1090 1095 1098

<210> 1236

<211> 51

<212> Amino acid

<213> Homo sapiens

<400> 1236

Phe Phe Phe Leu Val Glu Met Gly Phe Cys His Val Gly Gln Gly Gly
 1 5 10 15
 Leu Thr Leu Ile Gly Ser Ser Asn Leu Pro Ala Ser Ala Ser Lys Ser
 20 25 30
 Ala Gly Ile Thr Gly Val Ser His Cys Ala Arg Pro Asp Phe Lys Ser
 35 40 45
 Cys Val Glu

50 51

<210> 1237
 <211> 70
 <212>Amino acid
 <213> Homo sapiens

<400> 1237
 Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Gly Tyr Val Val Gly
 1 5 10 15
 Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg
 20 25 30
 Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr
 35 40 45
 Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Gly Gly Val Ser Val Gln
 50 55 60
 Pro Gln Ala Pro Gly Pro
 65 70

<210> 1238
 <211> 114
 <212>Amino acid
 <213> Homo sapiens

<400> 1238
 Phe Trp Ala Pro Gly Pro Pro Gly Val Gly Ala Ala Val Gly Asp Ala
 1 5 10 15
 Ser Thr Arg Ser Leu Arg Glu Ser Cys Pro Ser Pro Ser Pro Gly Arg
 20 25 30
 Leu Arg Arg Thr Thr Ala Pro Trp Ser Ser Gln Ala Arg Ala Ala Ala
 35 40 45
 Pro Ala Pro Ser Ser Ser Cys Arg Gly Pro Asp Gly Ala Ser Ser Pro
 50 55 60
 Arg Asp Leu Pro Trp Arg Pro Trp Lys Ile Leu Arg Arg Thr Pro Leu
 65 70 75 80
 Ser Gly Asp Val Glu Leu Ser Gln Val His Pro Asp Gln Arg Ile Leu
 85 90 95
 Arg Arg Phe Ile Leu Ser Arg Thr Cys Gly Asn Thr Ile Pro Gly Met
 100 105 110
 Ala Glu
 114

<210> 1239
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

<400> 1239
 Met Arg Arg Phe Leu Ser Lys Val Tyr Ser Phe Pro Met Arg Lys Leu

```

      1           5           10           15
Ile Leu Phe Leu Val Phe Pro Val Val Arg Gln Thr Pro Thr Gln His
      20           25           30
Phe Lys Asn Gln Phe Pro Ala Leu His Trp Glu His Glu Leu Gly Leu
      35           40           45
Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr Asn Lys Phe Leu Leu Ile
      50           55           60
Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser Gln Val Thr Phe Arg Gly
      65           70           75           80
Met Thr Ser Glu Cys Ser Glu Ile Arg Gln Ala Gly Arg Pro Asn Lys
      85           90           95
Pro Asp Ser Ile Thr Val Val Ile Thr Lys Val Thr Asp Ser Tyr Pro
      100           105           110
Glu Pro Thr Gln Leu Leu Met Gly Thr Lys Ser Val Cys Glu Val Gly
      115           120           125
Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala Met Phe Ser Leu Gln
      130           135           140
Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp Ile Ser Leu Val Asp
      145           150           155           160
Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala Phe Leu Leu
      165           170           174

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<210> 1240
 <211> 425
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1240
Phe Val Trp Asp Glu Val Ala Gln Arg Ser Gly Cys Glu Glu Arg Trp
      1           5           10           15
Leu Val Ile Asp Arg Lys Val Tyr Asn Ile Ser Glu Phe Thr Arg Arg
      20           25           30
His Pro Gly Gly Ser Arg Val Ile Ser His Tyr Ala Gly Gln Asp Ala
      35           40           45
Thr Asp Pro Phe Val Ala Phe His Ile Asn Lys Gly Leu Val Lys Lys
      50           55           60
Tyr Met Asn Ser Leu Leu Ile Gly Glu Leu Ser Pro Glu Gln Pro Ser
      65           70           75           80
Phe Glu Pro Thr Lys Asn Lys Glu Leu Thr Asp Glu Phe Arg Glu Leu
      85           90           95
Arg Ala Thr Val Glu Arg Met Gly Leu Met Lys Ala Asn His Val Phe
      100           105           110
Phe Leu Leu Tyr Leu Leu His Ile Leu Leu Leu Asp Gly Ala Ala Trp
      115           120           125
Leu Thr Leu Trp Val Phe Gly Thr Ser Phe Leu Pro Phe Leu Leu Cys
      130           135           140
Ala Val Leu Leu Ser Ala Val Gln Ala Gln Ala Gly Trp Leu Gln His
      145           150           155           160
Asp Phe Gly His Leu Ser Val Phe Ser Thr Ser Lys Trp Asn His Leu
      165           170           175
Leu His His Phe Val Ile Gly His Leu Lys Gly Ala Pro Ala Ser Trp
      180           185           190
Trp Asn His Met His Phe Gln His His Ala Lys Pro Asn Cys Phe Arg
      195           200           205
Lys Asp Pro Asp Ile Asn Met His Pro Phe Phe Phe Ala Leu Gly Lys
      210           215           220
Ile Leu Ser Val Glu Leu Gly Lys Gln Lys Lys Tyr Met Pro Tyr
      225           230           235           240
Asn His Gln His Lys Tyr Phe Phe Leu Ile Gly Pro Pro Ala Leu Leu

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```

                245                250                255
Pro Leu Tyr Phe Gln Trp Tyr Ile Phe Tyr Phe Val Ile Gln Arg Lys
                260                265                270
Lys Trp Val Asp Leu Ala Trp Met Ile Thr Phe Tyr Val Arg Phe Phe
                275                280                285
Leu Thr Tyr Val Pro Leu Leu Gly Leu Lys Ala Phe Leu Gly Leu Phe
                290                295                300
Phe Ile Val Arg Phe Leu Glu Ser Asn Trp Phe Val Trp Val Thr Gln
                305                310                315                320
Met Asn His Ile Pro Met His Ile Asp His Asp Arg Asn Met Asp Trp
                325                330                335
Val Ser Thr Gln Leu Gln Ala Thr Cys Asn Val His Lys Ser Ala Phe
                340                345                350
Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His Leu
                355                360                365
Phe Pro Thr Met Pro Arg His Asn Tyr His Lys Val Ala Pro Leu Val
                370                375                380
Gln Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Ser Lys Pro Leu
                385                390                395                400
Leu Ser Ala Phe Ala Asp Ile Ile His Ser Leu Lys Glu Ser Gly Gln
                405                410                415
Leu Trp Leu Asp Ala Tyr Leu His Gln
                420                425

```

<210> 1241
 <211> 152
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1241
Gln Cys Gly Gly Ile Pro Tyr Asn Thr Thr Gln Phe Leu Met Asn Asp
  1                5                10                15
Arg Asp Pro Glu Glu Pro Asn Leu Asp Val Pro His Gly Ile Ser His
                20                25                30
Pro Gly Ser Ser Gly Glu Ser Glu Ala Gly Asp Ser Asp Gly Arg Gly
                35                40                45
Arg Ala His Gly Glu Phe Gln Arg Lys Asp Phe Ser Glu Thr Tyr Glu
                50                55                60
Arg Phe His Thr Glu Ser Leu Gln Gly Arg Ser Lys Gln Glu Leu Val
                65                70                75                80
Arg Asp Tyr Leu Glu Leu Glu Lys Arg Leu Ser Gln Ala Glu Glu Glu
                85                90                95
Thr Arg Arg Leu Gln Gln Leu Gln Ala Cys Thr Gly Gln Gln Ser Cys
                100                105                110
Arg Gln Val Glu Glu Leu Ala Ala Glu Val Gln Arg Leu Arg Thr Glu
                115                120                125
Asn Gln Arg Leu Arg Gln Glu Asn Gln Met Trp Asn Arg Glu Gly Cys
                130                135                140
Arg Cys Asp Glu Glu Pro Gly Thr
                145                150                152

```

<210> 1242
 <211> 191
 <212> Amino acid
 <213> Homo sapiens

<400> 1242

```

Ser Pro Glu Arg Ser Ser Leu Ser Val Gly Arg Glu Lys Ala Met Glu
 1          5          10          15
Val Pro Pro Pro Ala Pro Arg Ser Phe Leu Cys Arg Ala Leu Cys Leu
          20          25          30
Phe Pro Arg Val Phe Ala Ala Glu Ala Val Thr Ala Asp Ser Glu Val
          35          40          45
Leu Glu Glu Arg Gln Lys Arg Leu Pro Tyr Val Pro Glu Pro Tyr Tyr
          50          55          60
Pro Glu Ser Gly Trp Asp Arg Leu Arg Glu Leu Phe Gly Lys Asp Val
          65          70          75          80
Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala
          85          90          95
Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Gly Leu Leu
          100          105          110
Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln
          115          120          125
Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly
          130          135          140
Arg Leu Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu
          145          150          155          160
Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu
          165          170          175
Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp
          180          185          190 191

```

<210> 1243

<211> 381

<212>Amino acid

<213> Homo sapiens

<400> 1243

```

Arg Ser Leu Gly Leu Ala Val Thr Glu Met Val Pro Trp Val Arg Thr
 1          5          10          15
Met Gly Gln Lys Leu Lys Gln Arg Leu Arg Leu Asp Val Gly Arg Glu
          20          25          30
Ile Cys Arg Gln Tyr Pro Leu Phe Cys Phe Leu Leu Leu Cys Leu Ser
          35          40          45
Ala Ala Ser Leu Leu Leu Asn Arg Tyr Ile His Ile Leu Met Ile Phe
          50          55          60
Trp Ser Phe Val Ala Gly Val Val Thr Phe Tyr Cys Ser Leu Gly Pro
          65          70          75          80
Asp Ser Leu Leu Pro Asn Ile Phe Phe Thr Ile Lys Tyr Lys Pro Lys
          85          90          95
Gln Leu Gly Leu Gln Glu Leu Phe Pro Gln Gly His Ser Cys Ala Val
          100          105          110
Cys Gly Lys Val Lys Cys Lys Arg His Arg Pro Ser Leu Leu Glu
          115          120          125
Asn Tyr Gln Pro Trp Leu Asp Leu Lys Ile Ser Ser Lys Val Asp Ala
          130          135          140
Ser Leu Ser Glu Val Leu Glu Leu Val Leu Glu Asn Phe Val Tyr Pro
          145          150          155          160
Trp Tyr Arg Asp Val Thr Asp Asp Glu Ser Phe Val Asp Glu Leu Arg
          165          170          175
Ile Thr Leu Arg Phe Phe Ala Ser Val Leu Ile Arg Arg Ile His Lys
          180          185          190
Val Asp Ile Pro Ser Ile Ile Thr Lys Lys Leu Leu Lys Ala Ala Met

```

```

      195      200      205
Lys His Ile Glu Val Ile Val Lys Ala Arg Gln Lys Val Lys Asn Thr
  210      215      220
Glu Phe Leu Gln Gln Ala Ala Leu Glu Glu Tyr Gly Pro Glu Leu His
  225      230      235      240
Val Ala Leu Arg Ser Arg Arg Asp Glu Leu His Tyr Leu Arg Lys Leu
      245      250      255
Thr Glu Leu Leu Phe Pro Tyr Ile Leu Pro Pro Lys Ala Thr Asp Cys
      260      265      270
Arg Ser Leu Thr Leu Leu Ile Arg Glu Ile Leu Ser Gly Ser Val Phe
      275      280      285
Leu Pro Ser Leu Asp Phe Leu Ala Asp Pro Asp Thr Val Asn His Leu
      290      295      300
Leu Ile Ile Phe Ile Asp Asp Ser Pro Pro Glu Lys Ala Thr Glu Pro
  305      310      315      320
Ala Ser Pro Leu Val Pro Phe Leu Gln Lys Phe Ala Glu Pro Arg Asn
      325      330      335
Lys Lys Pro Ser Val Leu Lys Leu Glu Leu Lys Gln Ile Arg Glu Gln
      340      345      350
Gln Asp Leu Leu Phe Arg Phe Met Asn Phe Leu Lys Gln Glu Gly Ala
      355      360      365
Val His Val Leu His Val Leu Phe Asp Cys Gly Gly Ile
      370      375      380 381

```

<210> 1244

<211> 371

<212>Amino acid

<213> Homo sapiens

<400> 1244

```

Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser Glu Leu
  1      5      10      15
Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr Pro Asn
      20      25      30
His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr Met Lys
      35      40      45
Gly Gly Phe Tyr Pro Arg Gly Val Thr Ser Glu Ile Ala Phe His Thr
      50      55      60
Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys Ala Thr
      65      70      75      80
Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly Val Ser
      85      90      95
Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile Val Val
      100      105      110
Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro Gly Asn
      115      120      125
Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val Arg Pro
      130      135      140
Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr Lys Glu
  145      150      155      160
Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp Thr Asp
      165      170      175
Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu Glu Ala
      180      185      190
Ala Glu His Ile Pro Leu Leu Phe Ala Phe Pro Ser Ala Lys Asp
      195      200      205
Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile Met Leu
      210      215      220
Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu Leu Lys

```

225 230 235 240
 Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe Val Glu
 245 250 255
 Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu Gly Lys
 260 265 270
 Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe Tyr Leu
 275 280 285
 Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu Gly Arg
 290 295 300
 Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro Ile Pro
 305 310 315 320
 Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu Val Gly
 325 330 335
 Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Thr Ile Leu Lys Arg Asn
 340 345 350
 Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala Gln Lys
 355 360 365
 Lys Lys Asn
 370 371

<210> 1245
 <211> 295
 <212> Amino acid
 <213> Homo sapiens

<400> 1245
 Arg Pro Gln Glu Thr Arg Val Leu Gln Val Ser Cys Gly Arg Ala His
 1 5 10 15
 Ser Leu Val Leu Thr Asp Arg Glu Gly Val Phe Ser Met Gly Asn Asn
 20 25 30
 Ser Tyr Gly Gln Cys Gly Arg Lys Val Val Glu Asn Glu Ile Tyr Ser
 35 40 45
 Glu Ser His Arg Val His Arg Met Gln Asp Phe Asp Gly Gln Val Val
 50 55 60
 Gln Val Ala Cys Gly Gln Asp His Ser Leu Phe Leu Thr Asp Lys Gly
 65 70 75 80
 Glu Val Tyr Ser Cys Gly Trp Gly Ala Asp Gly Gln Thr Gly Leu Gly
 85 90 95
 His Tyr Asn Ile Thr Ser Ser Pro Thr Lys Leu Gly Gly Asp Leu Ala
 100 105 110
 Gly Val Asn Val Ile Gln Val Ala Thr Tyr Gly Asp Cys Cys Leu Ala
 115 120 125
 Val Ser Ala Asp Gly Gly Leu Phe Gly Trp Gly Asn Ser Glu Tyr Leu
 130 135 140
 Gln Leu Ala Ser Val Thr Asp Ser Thr Gln Val Asn Val Pro Arg Cys
 145 150 155 160
 Leu His Phe Ser Gly Val Gly Lys Val Arg Gln Ala Ala Cys Gly Gly
 165 170 175
 Thr Gly Cys Ala Val Leu Asn Gly Glu Gly His Val Phe Val Trp Gly
 180 185 190
 Tyr Gly Ile Leu Gly Lys Gly Pro Asn Leu Val Glu Ser Ala Val Pro
 195 200 205
 Glu Met Ile Pro Pro Thr Leu Phe Gly Leu Thr Glu Phe Asn Pro Glu
 210 215 220
 Ile Gln Val Ser Arg Ile Arg Cys Gly Leu Ser His Phe Ala Ala Leu
 225 230 235 240
 Thr Asn Lys Gly Glu Leu Phe Val Trp Gly Lys Asn Ile Arg Gly Cys
 245 250 255
 Leu Gly Ile Gly Arg Leu Glu Asp Gln Tyr Phe Pro Trp Arg Val Thr

260 265 270
 Met Pro Gly Glu Pro Val Asp Val Ala Cys Gly Val Asp His Met Val
 275 280 285
 Thr Leu Ala Lys Ser Phe Ile
 290 295

<210> 1246
 <211> 172
 <212> Amino acid
 <213> Homo sapiens

<400> 1246
 Leu Pro Phe Arg Glu Trp Leu Met Ile Val Val Ser Leu Ser Ala Ala
 1 5 10 15
 Ala Val Ala Ala Ala Phe Met Ala Lys Cys Arg Met Val Leu Ser Ser
 20 25 30
 Arg Tyr Phe Cys Ser His Phe Val Met Ser Ala Ser Arg Ala Arg Ile
 35 40 45
 Arg Ser Ser Phe Ser Arg Thr Ser Ser Arg Arg Ala Gly Ala Leu Tyr
 50 55 60
 Ser Gly Met Leu Ala Gly Trp Pro Phe Pro Cys Phe Cys Trp Val Leu
 65 70 75 80
 Ser Ala Ser Ser Ser Leu Ser Ser Gln Val Arg Ser Leu Arg Ser Ile
 85 90 95
 Cys Ser Arg Phe Ser His Ala Asp Cys Ser Trp Val Arg Ala Cys Cys
 100 105 110
 Ser Phe Ser Thr Phe Ser Thr Tyr Ala Cys Phe Ser Arg Asn Ser Ser
 115 120 125
 Ser Ser Leu Met Thr Leu Ala Trp Ala Leu Leu Lys Ala Trp Ser Arg
 130 135 140
 Ile Ser Met Cys Leu Arg Trp Ser Ser Leu Ala Val Arg Thr Ala Ala
 145 150 155 160
 Asn Ser Ile Ser Asn Phe Ser Phe Ser Phe Lys Asn
 165 170 172

<210> 1247
 <211> 361
 <212> Amino acid
 <213> Homo sapiens

<400> 1247
 Met Gln Ala Val Arg Ala Thr Ala Ser Gln Ser Leu Ser Cys Ala Arg
 1 5 10 15
 Ala Pro Arg Glu Pro Thr Gln His Ala Leu Arg Ala His Trp Phe Pro
 20 25 30
 Pro Ala Ala Ala Val Gln Pro Ser Pro His Ser Gly Val Ala Ala Ala
 35 40 45
 Ala Gly Thr Trp Ser Ser Ala Phe Arg Gly Glu His Pro Leu Val Ser
 50 55 60
 Ser Gly Leu Leu Leu Gly Val Arg Glu Gln Ser Phe Arg Leu Leu Arg
 65 70 75 80
 Ser Lys Ala Gly Thr His Met Tyr Leu Glu His Thr Ser His Cys Pro
 85 90 95
 His His Asp Asp Asp Thr Ala Met Asp Thr Pro Leu Pro Arg Pro Arg

```

      100      105      110
Pro Leu Leu Ala Val Glu Arg Thr Gly Gln Arg Pro Leu Trp Ala Pro
      115      120      125
Ser Leu Glu Leu Pro Lys Pro Asp Met Gln Pro Leu Pro Ala Gly Ala
      130      135      140
Phe Leu Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu
      145      150      155      160
Pro Lys Val Leu Asp Pro Glu Glu Asp Leu Leu Cys Ile Ala Lys Thr
      165      170      175
Phe Ser Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala
      180      185      190
Ser Glu Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu
      195      200      205
Val Arg Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys
      210      215      220
Thr Thr Arg Gly Pro Thr Asn Val Arg Ile Glu Tyr Ala Asp Ser Ser
      225      230      235      240
Phe Arg Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe
      245      250      255
Pro Asp Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala
      260      265      270
Asp Thr Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro
      275      280      285
Met Pro Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro
      290      295      300
Pro Ala Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg
      305      310      315      320
Ser Ser Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg
      325      330      335
Leu Val Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp
      340      345      350
Tyr Leu Arg Gln Tyr Pro Phe Gln Leu
      355      360 361

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<210> 1248
 <211> 279
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1248
Phe Val Asp Ile Phe Gln Arg Trp Lys Glu Cys Arg Gly Lys Ser Pro
      1      5      10      15
Ala Gln Ala Glu Leu Ser Tyr Leu Asn Lys Ala Lys Trp Leu Glu Met
      20      25      30
Tyr Gly Val Asp Met His Val Val Arg Gly Arg Asp Gly Cys Glu Tyr
      35      40      45
Ser Leu Gly Leu Thr Pro Thr Gly Ile Leu Ile Phe Glu Gly Ala Asn
      50      55      60
Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Lys Met Asp Phe Lys
      65      70      75      80
Lys Ser Lys Leu Thr Leu Val Val Val Glu Asp Asp Asp Gln Gly Arg
      85      90      95
Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp Ser Ala Arg Thr Cys
      100      105      110
Lys His Leu Trp Lys Cys Ala Val Glu His His Ala Phe Phe Arg Leu
      115      120      125
Arg Thr Pro Gly Asn Ser Lys Ser Asn Arg Ser Asp Phe Ile Arg Leu
      130      135      140
Gly Ser Arg Phe Arg Phe Ser Gly Arg Thr Glu Tyr Gln Ala Thr His

```



```

145          150          155          160
Gly Ser Arg Leu Arg Arg Thr Ser Thr Phe Glu Arg Lys Pro Ser Lys
          165          170          175
Arg Tyr Pro Ser Arg Arg His Ser Thr Phe Lys Ala Ser Asn Pro Val
          180          185          190
Ile Ala Ala Gln Leu Cys Ser Lys Thr Asn Pro Glu Val His Asn Tyr
          195          200          205
Gln Pro Gln Tyr His Pro Asn Ile His Pro Ser Gln Pro Arg Trp His
          210          215          220
Pro His Ser Pro Asn Val Arg Pro Ser Phe Gln Asp Asp Arg Ser His
225          230          235          240
Trp Lys Ala Ser Ala Ser Gly Asp Asp Ser His Phe Asp Tyr Val His
          245          250          255
Asp Gln Asn Gln Lys Asn Leu Gly Gly Met Gln Ser Met Met Tyr Arg
          260          265          270
Asp Lys Leu Met Thr Ala Leu
          275          279

```

<210> 1249

<211> 255

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(255)

<223> X = any amino acid or stop code

<400> 1249

```

Gly Gly Ile Arg Leu Ile Gln Lys Leu Thr Trp Arg Ser Arg Gln Gln
  1          5          10          15
Asp Arg Glu Asn Cys Ala Met Lys Gly Lys His Lys Asp Glu Cys His
          20          25          30
Asn Phe Ile Lys Val Phe Val Pro Arg Asn Asp Glu Met Val Phe Val
          35          40          45
Cys Gly Thr Asn Ala Phe Asn Pro Met Cys Arg Tyr Tyr Arg Val Ser
          50          55          60
Ile Phe Tyr Val Ile Cys Phe Phe Xaa Ser Thr Phe Leu Pro Ser Leu
          65          70          75          80
Ile Cys Cys Xaa Ser Xaa Asn Leu Ser Ala Phe Gln Xaa Phe Val Leu
          85          90          95
Ser Leu Val Gln Xaa Lys Asn Lys Asp Arg Ile Leu Gln Met Glu Phe
          100          105          110
Xaa Tyr Lys Xaa Asn Ser Ile Ala Phe Lys Arg Ala Arg Xaa Ile Asp
          115          120          125
Met Thr Leu Ala Ile Tyr Phe Ser Phe Val Leu Ser Thr Leu Xaa Tyr
          130          135          140
Asp Gly Glu Glu Ile Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg
145          150          155          160
Gln Thr Asn Gly Ala Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr
          165          170          175
Val Ala Asp Phe Leu Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly
          180          185          190
Asp Gly Ser Ala Leu Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys
          195          200          205
Glu Pro His Phe Leu Tyr Ala Ile Lys Tyr Gly Asn Tyr Val Tyr Phe
          210          215          220
Ser Phe Arg Glu Ile Val Ala Thr Xaa Xaa Leu Gly Lys Ala Val Asp
225          230          235          240

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Ser Arg Val Ala Arg Tyr Glu Lys Gln Leu Val Gly Pro Thr Val
 245 250 255

<210> 1250
 <211> 307
 <212> Amino acid
 <213> Homo sapiens

<400> 1250
 Ala Arg Ala Leu Ala Arg Glu Arg Glu Ser Glu Ser Ala Arg Ala Asp
 1 5 10 15
 Asp Val Thr Leu Gly Val Ser Ala Ile Leu Ala Val Asp Arg Gly Gly
 20 25 30
 Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu Val Arg
 35 40 45
 Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser Gly Asn
 50 55 60
 Gly Ser Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu Ser Pro
 65 70 75 80
 Phe His Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg Gly Pro
 85 90 95
 Gly Pro Val Leu Gly Val Ala Arg Pro Cys Leu Arg Cys Val Leu Arg
 100 105 110
 Pro Glu His Tyr Glu Pro Gly Ser His Tyr Ser Gly Phe Ala Gly Arg
 115 120 125
 Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys Ser Glu Ala Gly Leu
 130 135 140
 Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu Met Leu Thr Leu His
 145 150 155 160
 Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val Cys Val Gly Arg Val
 165 170 175
 Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala Leu Thr
 180 185 190
 Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys Leu Gln
 195 200 205
 Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp Ser Ser
 210 215 220
 Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly Val Ser
 225 230 235 240
 Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr Lys Pro Gly Ala Lys
 245 250 255
 Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly Pro Pro Ser Gly Gln
 260 265 270
 Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp His Pro
 275 280 285
 Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr Cys Ser
 290 295 300
 Phe Pro Leu
 305 307

<210> 1251
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1251

```

Tyr Phe Ile Ile Cys Arg Asp Gly Val Leu Leu Phe Cys Pro Gly Trp
 1           5           10           15
Ser Gln Thr Pro Gly Ala Gln Ala Ile Leu Leu His Trp Ala Thr Gln
           20           25           30
Asn Ala Gly Met Thr Asp Met Ser His Ser Ala Gln Pro Ile Tyr Leu
           35           40           45
Phe Ile Tyr Leu Ile Arg Thr Arg Ser His Tyr Val Ala Gln Ala Gly
 50           55           60
Gln Leu Leu Asp Ser Asn Asp Ser Pro Asn Val Ala Ser Gln Asn Val
 65           70           75           80
Gly Ile Thr Gly Met Ser His His Ala Trp Leu Lys Ile Val Leu Tyr
           85           90           95
Phe Cys Ile Ile
           100

```

<210> 1252

<211> 464

<212> Amino acid

<213> Homo sapiens

<400> 1252

```

Pro Ala Ala Arg Pro Pro Ser Leu Val Arg Leu Ser Pro Ser Pro Pro
 1           5           10           15
Lys Pro Arg Ala Arg Ala Arg Ala Pro Gln Ser Val Glu Pro Ala Ala
           20           25           30
Pro Leu Val Ala Arg Gly Ser Ser Pro Pro Ala Arg Pro Ala Pro Ala
           35           40           45
Met Val Arg Pro Arg Arg Ala Pro Tyr Arg Ser Gly Ala Gly Gly Pro
           50           55           60
Leu Gly Gly Arg Gly Arg Pro Pro Arg Pro Leu Val Val Arg Ala Val
 65           70           75           80
Arg Ser Arg Ser Trp Pro Ala Ser Pro Arg Gly Pro Gln Pro Pro Arg
           85           90           95
Ile Arg Ala Arg Ser Ala Pro Pro Met Glu Gly Ala Arg Val Phe Gly
           100           105           110
Ala Leu Gly Pro Ile Gly Pro Ser Ser Pro Gly Leu Thr Leu Gly Gly
           115           120           125
Leu Ala Val Ser Glu His Arg Leu Ser Asn Lys Leu Leu Ala Trp Ser
 130           135           140
Gly Val Leu Glu Trp Gln Glu Lys Arg Arg Pro Tyr Ser Asp Ser Thr
 145           150           155           160
Ala Lys Leu Lys Arg Thr Leu Pro Cys Gln Ala Tyr Val Asn Gln Gly
           165           170           175
Glu Asn Leu Glu Thr Asp Gln Trp Pro Gln Lys Leu Ile Met Gln Leu
           180           185           190
Ile Pro Gln Gln Leu Leu Thr Thr Leu Gly Pro Leu Phe Arg Asn Ser
           195           200           205
Gln Leu Ala Gln Phe His Phe Thr Asn Arg Asp Cys Asp Ser Leu Lys
 210           215           220
Gly Leu Cys Arg Ile Met Gly Asn Gly Phe Ala Gly Cys Met Leu Phe
 225           230           235           240
Pro His Ile Ser Pro Cys Glu Val Arg Val Leu Met Leu Leu Tyr Ser
           245           250           255
Ser Lys Lys Lys Ile Phe Met Gly Leu Ile Pro Tyr Asp Gln Ser Gly
           260           265           270
Phe Val Ser Ala Ile Arg Gln Val Ile Thr Thr Arg Lys Gln Ala Val
           275           280           285

```

Gly Pro Gly Gly Val Asn Ser Gly Pro Val Gln Ile Val Asn Asn Lys
 290 295 300
 Phe Leu Ala Trp Ser Gly Val Met Glu Trp Gln Glu Pro Arg Pro Glu
 305 310 315 320
 Pro Asn Ser Arg Ser Lys Arg Trp Leu Pro Ser His Val Tyr Val Asn
 325 330 335
 Gln Gly Glu Ile Leu Arg Thr Glu Gln Trp Pro Arg Lys Leu Tyr Met
 340 345 350
 Gln Leu Ile Pro Gln Gln Leu Leu Thr Thr Leu Val Pro Leu Phe Arg
 355 360 365
 Asn Ser Arg Leu Val Gln Phe His Phe Thr Lys Asp Leu Glu Thr Leu
 370 375 380
 Lys Ser Leu Cys Arg Ile Met Asp Asn Gly Phe Ala Gly Cys Val His
 385 390 395 400
 Phe Ser Tyr Lys Ala Ser Cys Glu Ile Arg Val Leu Met Leu Leu Tyr
 405 410 415
 Ser Ser Glu Lys Lys Ile Phe Ile Gly Leu Ile Pro His Asp Gln Gly
 420 425 430
 Asn Phe Val Asn Gly Ile Arg Arg Val Ile Ala Asn Gln Gln Gln Val
 435 440 445
 Leu Gln Arg Asn Leu Glu Gln Glu Gln Gln Arg Gly Met Gly Gly
 450 455 460 464

<210> 1253
 <211> 214
 <212> Amino acid
 <213> Homo sapiens

<400> 1253
 Gly Arg Pro Ala Leu Gly Arg Glu Ala Pro Pro Gln Ala Gly Leu Ser
 1 5 10 15
 Ser Thr Pro Pro Cys Ser Glu Thr Cys Thr Met Gly Pro His Ser
 20 25 30
 Ile Leu Arg Thr Val His Cys Arg Pro Thr Lys Thr Pro Pro Glu Pro
 35 40 45
 Ser Ala Glu Pro His Pro Leu Ser Leu Leu Thr Ser Ser Asn Thr Ser
 50 55 60
 Leu Ala Gly Thr Ser Leu Gly Arg Asp Leu Thr Pro Gly Gly Gly Lys
 65 70 75 80
 Pro Pro Ser Gly Gln Thr Pro Arg Asn Pro Glu Ser Pro Arg His Arg
 85 90 95
 Leu Gly Ser Pro Arg Gly Arg Arg Trp Leu Ala Ser Pro Thr Pro Thr
 100 105 110
 Gly Ser Gly Arg Ser Gly Pro Ala Ser Arg Gly Gln Arg Arg Leu Ser
 115 120 125
 Cys Ala Ala Gln Asp Pro Thr Ser Glu Gly Ala Ser Val Gly Ala Met
 130 135 140
 Glu Ala Gly Leu Gly Pro Pro Thr Ala Ala Pro Arg Gly Val Val Ser
 145 150 155 160
 Glu Ala Ala Glu Ser Leu Gly Gly Thr Leu Ser Trp Gly Ala Trp Gly
 165 170 175
 Arg Pro Pro Ala Gly Pro Ser Gly Leu Ala Gly Arg Arg Ser Arg Arg
 180 185 190
 Glu Ala Leu Arg Pro Asp Arg Lys Glu Ala Ser Val Met Met Ala Ala
 195 200 205
 Val Ser Ala Ile Gln Pro
 210 214

<210> 1254
 <211> 198
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(198)
 <223> X = any amino acid or stop code

<400> 1254
 Pro Gly Val Pro Thr His Gly Trp Pro Arg Ser Arg Val Leu Thr Arg
 1 5 10 15
 Val Arg Gly Ser Arg Gly Ser Gly Lys Met Ala Ala Ala Val Val Leu
 20 25 30
 Ala Ala Gly Leu Arg Ala Ala Arg Arg Ala Val Ala Ala Thr Gly Val
 35 40 45
 Arg Gly Gly Gln Val Arg Gly Ala Ala Gly Val Thr Asp Gly Asn Glu
 50 55 60
 Val Ala Lys Ala Gln Gln Ala Thr Pro Gly Gly Ala Ala Pro Thr Ile
 65 70 75 80
 Phe Ser Arg Ile Leu Asp Lys Ser Leu Pro Ala Asp Ile Leu Tyr Glu
 85 90 95
 Asp Gln Gln Cys Leu Val Phe Arg Asp Val Ala Pro Gln Ala Pro Val
 100 105 110
 His Phe Leu Val Ile Pro Lys Lys Pro Ile Pro Arg Ile Ser Gln Ala
 115 120 125
 Glu Glu Glu Asp Gln Gln Leu Thr Tyr Val Pro Pro Leu Ser Leu Xaa
 130 135 140
 Leu Leu Gly His Leu Leu Leu Val Ala Lys Gln Thr Ala Lys Ala Glu
 145 150 155 160
 Gly Leu Gly Asp Gly Tyr Arg Leu Val Ile Asn Asp Gly Lys Leu Gly
 165 170 175
 Ala Gln Ser Val Tyr His Leu His Ile His Val Leu Gly Gly Arg Gln
 180 185 190
 Leu Gln Trp Pro Pro Gly
 195 198

<210> 1255
 <211> 458
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> X = any amino acid or stop code

<400> 1255
 Val Pro Asn Tyr Leu Pro Ser Val Ser Ser Ala Ile Gly Gly Glu Val
 1 5 10 15
 Pro Gln Arg Tyr Val Trp Arg Phe Cys Ile Gly Leu His Ser Ala Pro
 20 25 30

Arg Phe Leu Val Ala Phe Ala Tyr Trp Asn His Tyr Leu Ser Cys Thr
 35 40 45
 Ser Pro Cys Ser Cys Tyr Arg Pro Leu Cys Arg Leu Asn Phe Gly Leu
 50 55 60
 Asn Val Val Glu Asn Leu Ala Leu Leu Val Leu Thr Tyr Val Ser Ser
 65 70 75 80
 Ser Glu Asp Phe Thr Trp Val Pro Gly Xaa Gly Arg Ser Gly Glu Val
 85 90 95
 Phe Pro Glu Gly Thr Gly Leu Pro Leu Pro His Ser Asp Leu Pro Thr
 100 105 110
 Ser Trp Cys Gly His Ser Leu Gln Cys Gly Ser Gln Ser Ser Phe Pro
 115 120 125
 Pro Ala Ile His Glu Asn Ala Phe Ile Val Phe Ile Ala Ser Ser Leu
 130 135 140
 Gly His Met Leu Leu Thr Cys Ile Leu Trp Arg Leu Thr Lys Lys His
 145 150 155 160
 Thr Val Ser Gln Glu Asp Gly Leu Ser Leu Ala Gly Ala Pro Arg Gln
 165 170 175
 Pro Arg Arg Lys Ser Arg Thr Ser Val Leu Arg Ile Arg Val Met Val
 180 185 190
 Arg Trp Glu Leu Ser Ser Asn Gly Asn Pro Gly Arg Gly Val Leu Gly
 195 200 205
 Leu Gly Leu Gly Leu Gly Asn Lys Leu Arg Val Val Gly Gln Asn Leu
 210 215 220
 Gly Leu Xaa His Cys Val Trp Val Val Trp Glu Thr Gly Glu Xaa Lys
 225 230 235 240
 Arg Trp Arg Leu Gln Met Gly Ile Glu Xaa Gly Val Ala Ser Arg Arg
 245 250 255
 Gln Xaa Val Arg Asn Ser Val Arg Gly Leu Val Cys His Asn Ser Ser
 260 265 270
 Ala Pro Pro Met Tyr Met Gly Phe Ser Pro Thr Val Phe Gly Gly
 275 280 285
 Gly Val Gly Gly Xaa Leu His Val Thr Phe Ile Leu His Pro Pro Glu
 290 295 300
 Val Glu Ala Ala Gly Ile Pro Leu Leu Leu Gly Pro Ser Leu Pro Gln
 305 310 315 320
 Arg Gln Gly Arg Glu His Ile Val Val Ile Leu Ala Ala Pro Ala Cys
 325 330 335
 Ala Pro Phe His Asp Arg Xaa Trp Glu Pro Arg Glu Ile Arg Pro Ser
 340 345 350
 Pro Xaa Glu Leu Gly Leu Arg Gly Glu Pro Thr Leu Ser Tyr Pro Ala
 355 360 365
 Ser Cys Arg Val Ile Arg Gln Pro Ile Pro Xaa Asp Arg Lys Ser Tyr
 370 375 380
 Ser Trp Lys Gln Arg Leu Phe Ile Ile Asn Phe Ile Ser Phe Phe Ser
 385 390 395 400
 Ala Leu Ala Val Tyr Phe Arg His Asn Met Tyr Cys Glu Ala Gly Val
 405 410 415
 Tyr Thr Ile Phe Ala Ile Leu Glu Tyr Thr Val Val Leu Thr Asn Met
 420 425 430
 Ala Phe His Met Thr Ala Trp Trp Asp Phe Gly Asn Lys Glu Leu Leu
 435 440 445
 Ile Thr Ser Gln Pro Glu Glu Lys Arg Phe
 450 455 458

<210> 1256

<211> 83

<212> Amino acid

<213> Homo sapiens

<400> 1256
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 1 5 10 15
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 20 25 30
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 35 40 45
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 50 55 60
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 65 70 75 80
 Asp Glu Leu
 83

<210> 1257
 <211> 203
 <212>Amino acid
 <213> Homo sapiens

<400> 1257
 Pro Arg Val Arg Gly Arg Val Gly Lys Glu Gly Ala Ala Ala Lys Pro
 1 5 10 15
 Arg Ser Leu Leu Arg Arg Phe Gln Leu Leu Ser Trp Ser Val Cys Gly
 20 25 30
 Gly Asn Lys Asp Pro Trp Val Gln Glu Leu Met Ser Cys Leu Asp Leu
 35 40 45
 Lys Glu Cys Gly His Ala Tyr Ser Gly Ile Val Ala His Gln Lys His
 50 55 60
 Leu Leu Pro Thr Ser Pro Pro Ile Ser Gln Ala Ser Glu Gly Ala Ser
 65 70 75 80
 Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr Leu Gln Ser
 85 90 95
 Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser Asp Lys Glu
 100 105 110
 Leu Thr Arg Pro Asn Glu Thr Thr Ile His Thr Ala Gly His Ser Leu
 115 120 125
 Ala Ala Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro Glu Lys Asn
 130 135 140
 Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val Leu Cys Leu
 145 150 155 160
 Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Leu Ser Tyr Val Leu Cys
 165 170 175
 Lys Arg Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp Leu Pro Val
 180 185 190
 His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr
 195 200 203

<210> 1258
 <211> 195
 <212>Amino acid
 <213> Homo sapiens

<400> 1258

```

Leu Ile Ile Ser Asn Phe Leu Lys Ala Lys Gln Lys Pro Gly Ser Thr
 1           5           10           15
Pro Asn Leu Gln Gln Lys Lys Ser Gln Ala Arg Leu Ala Pro Asp Ile
          20           25           30
Val Ser Ala Ser Gln Tyr Arg Lys Phe Asp Glu Phe Gln Thr Gly Ile
          35           40           45
Leu Ile Tyr Glu Leu Leu His Gln Pro Asn Pro Phe Glu Val Arg Ala
 50           55           60
Gln Leu Arg Glu Arg Asp Tyr Arg Gln Glu Asp Leu Pro Pro Leu Pro
 65           70           75           80
Ala Leu Ser Leu Tyr Ser Pro Gly Leu Gln Gln Leu Ala His Leu Leu
          85           90           95
Leu Glu Ala Asp Pro Ile Lys Arg Ile Arg Ile Gly Glu Ala Lys Arg
          100          105          110
Val Leu Gln Cys Leu Leu Trp Gly Pro Arg Arg Glu Leu Val Gln Gln
          115          120          125
Pro Gly Thr Ser Glu Glu Ala Leu Cys Gly Thr Leu His Asn Trp Ile
          130          135          140
Asp Met Lys Arg Ala Leu Met Met Met Lys Phe Ala Glu Lys Ala Val
145           150           155           160
Asp Arg Arg Arg Gly Val Glu Leu Glu Asp Trp Leu Cys Cys Gln Tyr
          165           170           175
Leu Ala Ser Ala Glu Pro Gly Ala Leu Leu Gln Ser Leu Lys Leu Leu
          180          185          190
Gln Leu Leu
          195

```

<210> 1259

<211> 672

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(672)

<223> X = any amino acid or stop code

<400> 1259

```

Lys Arg Gly Leu Ile Val Val Met Ala His Glu Met Ile Gly Thr Gln
 1           5           10           15
Ile Val Thr Glu Arg Gly Val Ala Leu Leu Glu Ser Gly Thr Glu Lys
          20           25           30
Val Leu Leu Ile Asp Ser Arg Pro Phe Val Glu Tyr Asn Thr Ser His
          35           40           45
Ile Leu Glu Ala Ile Asn Ile Asn Cys Ser Lys Leu Met Lys Arg Arg
 50           55           60
Leu Gln Gln Asp Lys Val Leu Ile Thr Glu Leu Ile Gln His Ser Ala
 65           70           75           80
Lys His Lys Val Asp Ile Asp Cys Ser Gln Lys Val Val Val Tyr Asp
          85           90           95
Gln Ser Ser Gln Asp Val Ala Ser Leu Ser Ser Asp Cys Phe Leu Thr
          100          105          110
Val Leu Leu Gly Lys Leu Glu Lys Ser Phe Asn Ser Val His Leu Leu
          115          120          125
Ala Gly Gly Phe Ala Glu Phe Ser Arg Cys Phe Pro Gly Leu Cys Glu
          130          135          140
Gly Lys Ser Thr Leu Val Pro Thr Cys Ile Ser Gln Pro Cys Leu Pro
145           150           155           160
Val Ala Asn Ile Gly Pro Thr Arg Ile Leu Pro Asn Leu Tyr Leu Gly

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765

<210> 1260
 <211> 260
 <212>Amino acid
 <213> Homo sapiens

<400> 1260
 Ala Ser Ser Ser Lys Arg Val Ser Arg Gln Lys Met Leu Gln Leu Trp
 1 5 10 15
 Lys Leu Val Leu Leu Cys Gly Val Leu Thr Gly Thr Ser Glu Ser Leu
 20 25 30
 Leu Asp Asn Leu Gly Asn Asp Leu Ser Asn Val Val Asp Lys Leu Glu
 35 40 45
 Pro Val Leu His Glu Gly Leu Glu Thr Val Asp Asn Thr Leu Lys Gly
 50 55 60
 Ile Leu Glu Lys Leu Lys Val Asp Leu Gly Val Leu Gln Lys Ser Ser
 65 70 75 80
 Ala Trp Gln Leu Ala Lys Gln Lys Ala Gln Glu Ala Glu Lys Leu Leu
 85 90 95
 Asn Asn Val Ile Ser Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly
 100 105 110
 Leu Lys Ile Ser Asn Ser Leu Ile Leu Asp Val Lys Ala Glu Pro Ile
 115 120 125
 Asp Asp Gly Lys Gly Leu Asn Leu Ser Phe Pro Val Thr Ala Asn Val
 130 135 140
 Thr Glu Ala Gly Pro Ile Ile Asp Gln Ile Ile Asn Leu Arg Ala Ser
 145 150 155 160
 Leu Asp Leu Leu Thr Ala Val Thr Ile Glu Thr Asp Pro Gln Thr His
 165 170 175
 His Pro Val Ala Gly Leu Gly Glu Cys Ala Arg Asp Pro Thr Ser Ile
 180 185 190
 Ser Leu Cys Leu Leu Asp Lys His Ser Gln Ile Ile Asn Lys Phe Val
 195 200 205
 Asn Ser Val Ile Asn Thr Leu Lys Ser Thr Val Ser Ser Leu Leu Gln
 210 215 220
 Lys Glu Ile Cys Pro Leu Ile Arg Ile Phe Ile His Ser Leu Asp Val
 225 230 235 240
 Asn Val Ile Gln Gln Val Val Asp Asn Pro Gln His Lys Thr Gln Leu
 245 250 255
 Gln Thr Leu Ile
 260

<210> 1261
 <211> 278
 <212>Amino acid
 <213> Homo sapiens

<400> 1261
 Cys Ser Leu Arg Arg Pro Arg Ser Ala Ala Glu Pro Asp Ala Asp His
 1 5 10 15
 Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln
 20 25 30
 Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu

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      35      40      45
Arg Gly Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser
  50      55      60
Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg
  65      70      75      80
Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly
      85      90      95
Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr
      100      105      110
Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys
      115      120      125
Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys
      130      135      140
Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu
      145      150      155      160
Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe
      165      170      175
Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp
      180      185      190
Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu
      195      200      205
Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile
      210      215      220
Asn Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly
      225      230      235      240
Ala Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr
      245      250      255
Pro Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile
      260      265      270
Ile Glu Glu Leu Pro Lys
      275      278

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<210> 1262
 <211> 362
 <212> Amino acid
 <213> Homo sapiens

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      <400> 1262
Met His Ser Ala Met Leu Gly Thr Arg Val Asn Leu Ser Val Ser Asp
  1      5      10      15
Phe Trp Arg Val Met Met Arg Val Cys Trp Leu Val Arg Gln Asp Ser
      20      25      30
Arg His Gln Arg Ile Arg Leu Pro His Leu Glu Ala Val Val Ile Gly
      35      40      45
Arg Gly Pro Glu Thr Lys Ile Thr Asp Lys Lys Cys Ser Arg Gln Gln
      50      55      60
Val Gln Leu Lys Ala Glu Cys Asn Lys Gly Tyr Val Lys Val Lys Gln
      65      70      75      80
Val Gly Val Asn Pro Thr Ser Ile Asp Ser Val Val Ile Gly Lys Asp
      85      90      95
Gln Glu Val Lys Leu Gln Pro Gly Gln Val Leu His Met Val Asn Glu
      100      105      110
Leu Tyr Pro Tyr Ile Val Glu Phe Glu Glu Glu Ala Lys Asn Pro Gly
      115      120      125
Leu Glu Thr His Arg Lys Arg Lys Arg Ser Gly Asn Ser Asp Ser Ile
      130      135      140
Glu Arg Asp Ala Ala Gln Glu Ala Glu Ala Gly Thr Gly Leu Glu Pro
      145      150      155      160
Gly Ser Asn Ser Gly Gln Cys Ser Val Pro Leu Lys Lys Gly Lys Asp

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                165                170                175
Ala Pro Ile Lys Lys Glu Ser Leu Gly His Trp Ser Gln Gly Leu Lys
                180                185                190
Ile Ser Met Gln Asp Pro Lys Met Gln Val Tyr Lys Asp Glu Gln Val
                195                200                205
Val Val Ile Lys Asp Lys Tyr Pro Lys Ala Arg Tyr His Trp Leu Val
                210                215                220
Leu Pro Trp Thr Ser Ile Ser Ser Leu Lys Ala Val Ala Arg Glu His
                225                230                235                240
Leu Glu Leu Leu Lys His Met His Thr Val Gly Glu Lys Val Ile Val
                245                250                255
Asp Phe Ala Gly Ser Ser Lys Leu Arg Phe Arg Leu Gly Tyr His Ala
                260                265                270
Ile Pro Ser Met Ser His Val His Leu His Val Ile Ser Gln Asp Phe
                275                280                285
Asp Ser Pro Cys Leu Lys Asn Lys Lys His Trp Asn Ser Phe Asn Thr
                290                295                300
Glu Tyr Phe Leu Glu Ser Gln Ala Val Ile Glu Met Val Gln Glu Ala
                305                310                315                320
Gly Arg Val Thr Val Arg Asp Gly Met Pro Glu Leu Leu Lys Leu Pro
                325                330                335
Leu Arg Cys His Glu Cys Gln Gln Leu Leu Pro Ser Ile Pro Gln Leu
                340                345                350
Lys Glu His Leu Arg Lys His Trp Thr Gln
                355                360                362

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<210> 1263

<211> 618

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (618)

<223> X = any amino acid or stop code

<400> 1263

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Asp Met Ser Asp Thr Ser Glu Ser Gly Ala Gly Leu Thr Arg Phe Gln
 1          5          10          15
Ala Glu Ala Ser Glu Lys Asp Ser Ser Ser Met Met Gln Thr Leu Leu
          20          25          30
Thr Val Thr Gln Asn Val Glu Val Pro Glu Thr Pro Lys Ala Ser Lys
          35          40          45
Ala Leu Glu Val Ser Glu Asp Val Lys Val Ser Lys Ala Ser Gly Val
          50          55          60
Ser Lys Ala Thr Glu Val Ser Lys Thr Pro Glu Ala Arg Glu Ala Pro
          65          70          75          80
Ala Thr Gln Ala Ser Ser Thr Thr Gln Leu Thr Asp Thr Gln Val Leu
          85          90          95
Ala Ala Glu Asn Lys Ser Leu Ala Ala Asp Thr Lys Lys Gln Asn Ala
          100          105          110
Asp Pro Gln Ala Val Thr Met Pro Ala Thr Glu Thr Lys Lys Val Ser
          115          120          125
His Val Ala Asp Thr Lys Val Asn Thr Lys Ala Gln Glu Thr Glu Ala
          130          135          140
Ala Pro Ser Gln Ala Pro Ala Asp Glu Pro Glu Pro Glu Ser Ala Ala
          145          150          155          160
Ala Gln Ser Gln Glu Asn Gln Asp Thr Arg Pro Lys Val Lys Ala Lys
          165          170          175

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Lys Ala Arg Lys Val Lys His Leu Asp Gly Glu Glu Asp Gly Ser Ser
 180 185 190
 Asp Gln Ser Gln Ala Ser Gly Thr Thr Gly Gly Arg Arg Val Ser Lys
 195 200 205
 Ala Leu Met Ala Ser Met Ala Arg Arg Ala Ser Arg Gly Pro Ile Ala
 210 215 220
 Phe Trp Ala Arg Arg Ala Ser Arg Thr Arg Leu Ala Cys Phe Gly Pro
 225 230 235 240
 Gly Glu Pro Leu Leu Ser Pro Trp Arg Ser Pro Lys Ala Arg Arg Gln
 245 250 255
 Arg Gly Phe Ala Val Arg Val Ala Lys Phe Gln Ser Ser Gln Glu Pro
 260 265 270
 Glu Ala Pro Pro Pro Trp Asp Val Ala Leu Leu Gln Gly Arg Ala Asn
 275 280 285
 Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile
 290 295 300
 Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val
 305 310 315 320
 Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe
 325 330 335
 Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu
 340 345 350
 Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys
 355 360 365
 Asp Ser Pro Lys Leu Gly Leu Leu Met Val Leu Leu Ser Ile Ile Phe
 370 375 380
 Met Asn Gly Asn Arg Ser Ser Glu Ala Val Ile Trp Glu Val Leu Arg
 385 390 395 400
 Arg Ser Leu Gly Leu Arg Leu Gly Ile His His Ser Leu Leu Gly Asp
 405 410 415
 Val Lys Lys Leu Ile Thr Asp Glu Val Lys Gln Lys Tyr Leu Asp
 420 425 430
 Tyr Ala Arg Val Pro His Ser Asn Ser Pro Glu Tyr Glu Phe Phe Trp
 435 440 445
 Gly Leu Arg Ser Tyr Tyr Glu Asp Gln Gln Arg Xaa Lys Ser Phe Lys
 450 455 460
 Phe Ala Cys Lys Val Gln Lys Lys Asp Pro Lys Glu Trp Ala Ala Gln
 465 470 475 480
 Ser Pro Pro Gly Lys Ala Arg Glu Arg Met Glu Ala Asp Leu Lys Ala
 485 490 495
 Ala Ser Xaa Gly Ser Pro Trp Lys Pro Arg Leu Arg Ala Glu Ile Lys
 500 505 510
 Ala Arg Met Gly Ile Gly Leu Gly Ser Glu Asn Ala Ala Gly Pro Cys
 515 520 525
 Asn Trp Asp Glu Ala Asp Ile Gly Pro Trp Ala Lys Ala Arg Ile Gln
 530 535 540
 Ala Gly Ala Glu Ala Lys Ala Lys Ala Gln Glu Ser Gly Ser Ala Ser
 545 550 555 560
 Thr Gly Ala Ser Thr Ser Thr Asn Asn Ser Ala Ser Ala Ser Ala Ser
 565 570 575
 Thr Ser Gly Gly Phe Ser Ala Gly Ala Ser Leu Thr Ala Thr Leu Thr
 580 585 590
 Phe Gly Leu Phe Ala Gly Leu Gly Gly Ala Gly Ala Ser Thr Ser Gly
 595 600 605
 Ser Ser Gly Ala Cys Gly Phe Ser Tyr Lys
 610 615 618

<210> 1264

<211> 464

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(464)
 <223> X = any amino acid or stop code

<400> 1264

Ala	Arg	Pro	Pro	Val	Cys	Thr	Gly	Ser	Thr	Met	Ser	Leu	Thr	Val	Val
1				5					10					15	
Ser	Met	Ala	Cys	Val	Gly	Phe	Phe	Leu	Leu	Gln	Gly	Ala	Trp	Pro	Leu
		20						25					30		
Met	Gly	Gly	Gln	Asp	Lys	Pro	Phe	Leu	Ser	Ala	Arg	Pro	Ser	Thr	Val
	35						40					45			
Val	Pro	Arg	Gly	Gly	His	Val	Ala	Leu	Gln	Cys	His	Tyr	Arg	Arg	Gly
	50					55					60				
Phe	Asn	Asn	Phe	Met	Leu	Tyr	Lys	Glu	Asp	Arg	Ser	His	Val	Pro	Ile
65					70				75						80
Phe	His	Gly	Arg	Ile	Phe	Gln	Glu	Ser	Phe	Ile	Met	Gly	Pro	Val	Thr
				85					90					95	
Pro	Ala	His	Ala	Gly	Thr	Tyr	Arg	Cys	Arg	Gly	Ser	Arg	Pro	His	Ser
			100					105					110		
Leu	Thr	Gly	Trp	Ser	Ala	Pro	Ser	Asn	Pro	Leu	Val	Ile	Met	Val	Thr
	115						120					125			
Gly	Asn	His	Arg	Lys	Pro	Ser	Leu	Leu	Ala	His	Pro	Gly	Pro	Leu	Leu
	130					135					140				
Lys	Ser	Gly	Glu	Thr	Val	Ile	Leu	Gln	Cys	Trp	Ser	Asp	Ile	Met	Phe
145					150				155						160
Glu	His	Phe	Phe	Leu	His	Lys	Glu	Gly	Ile	Ser	Lys	Asp	Pro	Ser	Arg
				165					170					175	
Leu	Val	Gly	Gln	Ile	His	Asp	Gly	Val	Ser	Lys	Ala	Asn	Phe	Ser	Ile
			180					185					190		
Gly	Pro	Met	Met	Leu	Ala	Leu	Ala	Gly	Thr	Tyr	Arg	Cys	Tyr	Gly	Ser
	195						200					205			
Val	Thr	His	Thr	Pro	Tyr	Gln	Leu	Ser	Ala	Pro	Ser	Asp	Pro	Leu	Asp
	210					215					220				
Ile	Val	Val	Thr	Gly	Pro	Tyr	Glu	Lys	Pro	Ser	Leu	Ser	Ala	Gln	Pro
225					230					235					240
Gly	Pro	Lys	Val	Gln	Ala	Gly	Glu	Ser	Val	Thr	Leu	Ser	Cys	Ser	Ser
				245					250					255	
Arg	Ser	Ser	Tyr	Asp	Met	Tyr	His	Leu	Ser	Arg	Glu	Gly	Gly	Ala	His
			260					265						270	
Glu	Arg	Arg	Leu	Pro	Ala	Val	Arg	Lys	Val	Asn	Arg	Thr	Phe	Gln	Ala
	275						280					285			
Asp	Phe	Pro	Leu	Gly	Pro	Ala	Thr	His	Gly	Gly	Thr	Tyr	Arg	Cys	Phe
	290					295					300				
Gly	Ser	Phe	Arg	His	Ser	Pro	Tyr	Glu	Trp	Ser	Asp	Pro	Ser	Asp	Pro
305					310					315					320
Leu	Leu	Val	Ser	Val	Thr	Gly	Asn	Pro	Ser	Ser	Ser	Trp	Pro	Ser	Pro
				325					330					335	
Thr	Glu	Pro	Ser	Ser	Lys	Ser	Gly	Asn	Leu	Arg	His	Leu	His	Ile	Leu
			340					345					350		
Ile	Gly	Thr	Ser	Val	Val	Lys	Ile	Pro	Phe	Thr	Ile	Leu	Leu	Phe	Phe
	355						360					365			
Leu	Leu	His	Arg	Trp	Cys	Ser	Asn	Lys	Lys	Asn	Ala	Ala	Val	Met	Asp
	370					375					380				
Gln	Glu	Pro	Ala	Gly	Asn	Arg	Val	Asn	Ser	Glu	Asp	Ser	Asp	Glu	Gln
385					390					395					400
Asp	His	Gln	Glu	Val	Ser	Tyr	Pro	Xaa	Leu	Glu	His	Cys	Val	Phe	Thr
				405					410					415	
Gln	Arg	Lys	Ile	Thr	Arg	Pro	Ser	Gln	Arg	Pro	Lys	Thr	Pro	Pro	Thr
			420					425					430		
Asp	Thr	Ser	Met	Tyr	Ile	Glu	Leu	Pro	Asn	Ala	Glu	Pro	Arg	Ser	Lys

435 440 445
 Val Val Phe Cys Pro Arg Ala Pro Gln Ser Gly Leu Glu Gly Ile Phe
 450 455 460 464

<210> 1265
 <211> 1879
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(1879)
 <223> X = any amino acid or stop code

<400> 1265
 Leu His Asn Leu Arg Glu Arg Tyr Phe Ser Gly Leu Ile Tyr Thr Tyr
 1 5 10 15
 Ser Gly Leu Phe Cys Val Val Val Asn Pro Tyr Lys His Leu Pro Ile
 20 25 30
 Tyr Ser Glu Lys Ile Val Asp Met Tyr Lys Gly Lys Lys Arg His Glu
 35 40 45
 Met Pro Pro His Ile Tyr Ala Ile Ala Asp Thr Ala Tyr Arg Ser Met
 50 55 60
 Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys Thr Gly Glu Ser Gly
 65 70 75 80
 Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile Gln Tyr Leu Ala Val
 85 90 95
 Val Ala Ser Ser His Lys Gly Lys Lys Asp Thr Ser Ile Thr Gly Glu
 100 105 110
 Leu Glu Lys Gln Leu Leu Gln Ala Asn Pro Ile Leu Glu Ala Phe Gly
 115 120 125
 Asn Ala Lys Thr Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe
 130 135 140
 Ile Arg Ile Asn Phe Asp Val Thr Gly Tyr Ile Val Gly Ala Asn Ile
 145 150 155 160
 Glu Thr Tyr Leu Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Arg Asp
 165 170 175
 Glu Arg Thr Phe His Ile Phe Tyr Tyr Met Ile Ala Gly Ala Lys Glu
 180 185 190
 Lys Met Arg Ser Asp Leu Leu Leu Glu Gly Phe Asn Asn Tyr Thr Phe
 195 200 205
 Leu Ser Asn Gly Phe Val Pro Ile Pro Ala Ala Gln Asp Asp Glu Met
 210 215 220
 Phe Gln Glu Thr Val Glu Ala Met Ala Ile Met Gly Phe Ser Glu Glu
 225 230 235 240
 Glu Gln Leu Ser Ile Leu Lys Val Val Ser Ser Val Leu Gln Leu Gly
 245 250 255
 Asn Ile Val Phe Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro
 260 265 270
 Asp Asn Thr Ala Ala Gln Lys Val Cys His Leu Met Gly Ile Asn Val
 275 280 285
 Thr Asp Phe Thr Arg Ser Ile Leu Thr Pro Arg Ile Lys Val Gly Arg
 290 295 300
 Asp Val Val Gln Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Val
 305 310 315 320
 Glu Ala Leu Ala Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Ile Leu
 325 330 335

Thr	Arg	Val	Asn	Lys	Ala	Leu	Asp	Lys	Thr	His	Arg	Gln	Gly	Ala	Ser	340	345	350
Phe	Leu	Gly	Ile	Leu	Asp	Ile	Ala	Gly	Phe	Glu	Ile	Phe	Glu	Val	Asn	355	360	365
Ser	Phe	Glu	Gln	Leu	Cys	Ile	Asn	Tyr	Thr	Asn	Glu	Lys	Leu	Gln	Gln	370	375	380
Leu	Phe	Asn	His	Thr	Met	Phe	Ile	Leu	Glu	Gln	Glu	Glu	Tyr	Gln	Arg	385	390	395
Glu	Gly	Ile	Glu	Trp	Asn	Phe	Ile	Asp	Phe	Gly	Leu	Asp	Leu	Gln	Pro	405	410	415
Cys	Ile	Glu	Leu	Ile	Glu	Arg	Pro	Asn	Asn	Pro	Pro	Gly	Val	Leu	Ala	420	425	430
Leu	Leu	Asp	Glu	Glu	Cys	Trp	Phe	Pro	Lys	Ala	Thr	Asp	Lys	Ser	Phe	435	440	445
Val	Glu	Lys	Leu	Cys	Thr	Glu	Gln	Gly	Ser	His	Pro	Lys	Phe	Gln	Lys	450	455	460
Pro	Lys	Gln	Leu	Lys	Asp	Lys	Thr	Glu	Phe	Ser	Ile	Ile	His	Tyr	Ala	465	470	475
Gly	Lys	Val	Asp	Tyr	Asn	Ala	Ser	Ala	Trp	Leu	Thr	Lys	Asn	Met	Asp	485	490	495
Pro	Leu	Asn	Asp	Asn	Val	Thr	Ser	Leu	Leu	Asn	Ala	Ser	Ser	Asp	Lys	500	505	510
Phe	Val	Ala	Asp	Leu	Trp	Lys	Asp	Val	Asp	Arg	Ile	Val	Gly	Leu	Asp	515	520	525
Gln	Met	Ala	Lys	Met	Thr	Glu	Ser	Ser	Leu	Pro	Ser	Ala	Ser	Lys	Thr	530	535	540
Lys	Lys	Gly	Met	Phe	Arg	Thr	Val	Gly	Gln	Leu	Tyr	Lys	Glu	Gln	Leu	545	550	555
Gly	Lys	Leu	Met	Thr	Thr	Leu	Arg	Asn	Thr	Thr	Pro	Asn	Phe	Val	Arg	565	570	575
Cys	Ile	Ile	Pro	Asn	His	Glu	Lys	Arg	Ser	Gly	Lys	Leu	Asp	Ala	Phe	580	585	590
Leu	Val	Leu	Glu	Gln	Leu	Arg	Cys	Asn	Gly	Val	Leu	Glu	Gly	Ile	Arg	595	600	605
Ile	Cys	Arg	Gln	Gly	Phe	Pro	Asn	Arg	Ile	Val	Phe	Gln	Glu	Phe	Arg	610	615	620
Gln	Arg	Tyr	Glu	Ile	Leu	Ala	Ala	Asn	Ala	Ile	Pro	Lys	Gly	Phe	Met	625	630	635
Asp	Gly	Lys	Gln	Ala	Cys	Ile	Leu	Met	Ile	Lys	Ala	Leu	Glu	Leu	Asp	645	650	655
Pro	Asn	Leu	Tyr	Arg	Ile	Gly	Gln	Ser	Lys	Ile	Phe	Phe	Arg	Thr	Gly	660	665	670
Val	Leu	Ala	His	Leu	Glu	Glu	Glu	Arg	Asp	Leu	Lys	Ile	Thr	Asp	Val	675	680	685
Ile	Met	Ala	Phe	Gln	Ala	Met	Cys	Arg	Gly	Tyr	Leu	Ala	Arg	Lys	Ala	690	695	700
Phe	Ala	Lys	Arg	Gln	Gln	Leu	Thr	Ala	Met	Lys	Val	Ile	Gln	Arg		705	710	715
Asn	Cys	Ala	Ala	Tyr	Ile	Lys	Leu	Arg	Asn	Trp	Gln	Trp	Cys	Arg	Leu	725	730	735
Phe	Thr	Lys	Val	Xaa	Pro	Leu	Leu	Gln	Val	Thr	Arg	Gln	Glu	Xaa	Glu	740	745	750
Met	Gln	Ala	Lys	Glu	Asp	Glu	Leu	Gln	Lys	Thr	Lys	Glu	Arg	Gln	Gln	755	760	765
Lys	Ala	Glu	Asn	Glu	Leu	Lys	Glu	Leu	Glu	Gln	Lys	His	Ser	Gln	Leu	770	775	780
Thr	Glu	Glu	Lys	Asn	Leu	Leu	Gln	Glu	Gln	Leu	Gln	Ala	Glu	Thr	Glu	785	790	795
Leu	Tyr	Ala	Glu	Ala	Glu	Glu	Met	Arg	Val	Arg	Leu	Ala	Ala	Lys	Lys	805	810	815
Gln	Glu	Leu	Glu	Glu	Ile	Leu	His	Glu	Met	Glu	Ala	Arg	Leu	Glu	Glu	820	825	830
Glu	Glu	Asp	Arg	Gly	Gln	Gln	Leu	Gln	Ala	Glu	Arg	Lys	Lys	Met	Ala	835	840	845

Gln Gln Met Leu Asp Leu Glu Glu Gln Leu Glu Glu Glu Glu Ala Ala
 850 855 860
 Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys
 865 870 875 880
 Lys Leu Glu Asp Glu Ile Leu Val Met Asp Asp Gln Asn Asn Lys Leu
 885 890 895
 Ser Lys Glu Arg Lys Leu Leu Glu Glu Arg Ile Ser Asp Leu Thr Thr
 900 905 910
 Asn Leu Ala Glu Glu Glu Glu Lys Ala Lys Asn Leu Thr Lys Leu Lys
 915 920 925
 Asn Lys His Glu Ser Met Ile Ser Glu Leu Glu Val Arg Leu Lys Lys
 930 935 940
 Glu Glu Lys Ser Arg Gln Glu Leu Glu Lys Leu Lys Arg Lys Leu Glu
 945 950 955 960
 Gly Asp Ala Ser Asp Phe His Glu Gln Ile Ala Asp Leu Gln Ala Gln
 965 970 975
 Ile Ala Glu Leu Lys Met Gln Leu Ala Lys Lys Glu Glu Glu Leu Gln
 980 985 990
 Ala Ala Leu Ala Arg Leu Asp Asp Glu Ile Ala Gln Lys Asn Asn Ala
 995 1000 1005
 Leu Lys Lys Ile Arg Glu Leu Glu Gly His Ile Ser Asp Leu Gln Glu
 1010 1015 1020
 Asp Leu Asp Ser Glu Arg Ala Ala Arg Asn Lys Ala Glu Lys Gln Lys
 1025 1030 1035 1040
 Arg Asp Leu Gly Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp
 1045 1050 1055
 Thr Leu Asp Ser Thr Ala Thr Gln Gln Glu Leu Arg Ala Lys Arg Glu
 1060 1065 1070
 Gln Glu Val Thr Val Leu Lys Arg Ala Leu Asn Glu Glu Thr Arg Ser
 1075 1080 1085
 His Glu Ala Gln Val Gln Glu Met Arg Gln Lys His Ala Gln Ala Val
 1090 1095 1100
 Gln Ser Leu Thr Glu Gln Leu Glu Gln Xaa Lys Arg Ala Lys Ala Asn
 1105 1110 1115 1120
 Leu Asp Lys Asn Lys Gln Thr Leu Glu Lys Glu Asn Thr Asp Leu Ala
 1125 1130 1135
 Gly Glu Leu Arg Val Leu Gly Gln Ala Lys Gln Glu Val Glu His Arg
 1140 1145 1150
 Met Lys Lys Leu Gln Ala Gln Val Gln Glu Leu Gln Ser Lys Cys Ser
 1155 1160 1165
 Asp Gly Glu Arg Ala Arg Ala Glu Leu Asn Asp Lys Val His Lys Leu
 1170 1175 1180
 Gln Asn Glu Val Glu Ser Val Thr Gly Met Leu Asn Glu Ala Glu Gly
 1185 1190 1195 1200
 Lys Ala Ile Lys Leu Ala Lys Asp Val Ala Ser Leu Ser Ser Gln Leu
 1205 1210 1215
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Ser Arg Gln Lys Leu Asn
 1220 1225 1230
 Val Ser Thr Ser Leu Arg Gln Leu Glu Glu Glu Arg Asn Ser Leu Gln
 1235 1240 1245
 Asp Gln Leu Asp Glu Glu Met Glu Ala Lys Gln Asn Leu Glu Arg His
 1250 1255 1260
 Ile Ser Thr Leu Asn Ile Gln Leu Ser Asp Ser Lys Lys Lys Leu Gln
 1265 1270 1275 1280
 Asp Phe Ala Ser Thr Val Glu Ala Leu Glu Glu Gly Lys Lys Arg Phe
 1285 1290 1295
 Gln Lys Glu Ile Glu Asn Leu Thr Gln Gln Tyr Glu Glu Lys Ala Ala
 1300 1305 1310
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Asn Arg Leu Gln Gln Glu Leu
 1315 1320 1325
 Asp Asp Leu Val Val Asp Leu Asp Asn Gln Arg Gln Leu Val Ser Asn
 1330 1335 1340
 Leu Glu Lys Lys Gln Arg Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys
 1345 1350 1355 1360

Asn Ile Ser Ser Lys Tyr Ala Asp Glu Arg Asp Arg Val Glu Ala Glu
 1365 1370 1375
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu
 1380 1385 1390
 Glu Ala Leu Glu Ala Lys Glu Glu Leu Glu Arg Thr Asn Lys Met Leu
 1395 1400 1405
 Lys Ala Glu Met Gly Arg Pro Gly Ser Ala Ser Lys Asp Asp Val Gly
 1410 1415 1420
 Gln Glu Leu Ser His Asp Leu Glu Lys Ser Lys Arg Ala Leu Gly Asp
 1425 1430 1435 1440
 Pro Arg Leu Glu Glu Met Lys Thr Gln Leu Glu Glu Leu Gly Arg Thr
 1445 1450 1455
 Glu Leu Ala Ser Pro Arg Arg Asp Ala Lys Leu Arg Leu Glu Val Asn
 1460 1465 1470
 Met Gln Ala Pro Ser Arg Ala Ser Phe Glu Arg Asp Leu Gln Ala Arg
 1475 1480 1485
 Thr Glu Gln Asn Glu Glu Ser Arg Arg His Leu Gln Arg Gln Leu His
 1490 1495 1500
 Glu Tyr Glu Thr Glu Leu Glu Asp Glu Arg Lys Gln Arg Ala Leu Ala
 1505 1510 1515 1520
 Ala Ala Ala Lys Ile Lys Leu Gly Trp Asp Pro Val Arg Thr Leu Asp
 1525 1530 1535
 Leu Xaa Ala Asp Ser Ala Ile Lys Gly Arg Gly Gly Lys Ala Ile Lys
 1540 1545 1550
 Gln Leu Arg Lys Leu Gln Ala Gln Met Lys Asp Phe Gln Arg Glu Leu
 1555 1560 1565
 Glu Asp Ala Arg Ala Ser Arg Asp Glu Ile Phe Ala Thr Ala Lys Glu
 1570 1575 1580
 Asn Glu Lys Lys Ala Lys Ser Leu Glu Ala Asp Leu Met Gln Leu Gln
 1585 1590 1595 1600
 Glu Asp Leu Ala Ala Ala Glu Glu Gly Arg Lys Gln Ala Asp Leu Glu
 1605 1610 1615
 Lys Glu Glu Leu Ala Glu Glu Leu Ala Ser Ser Leu Ser Gly Arg Asn
 1620 1625 1630
 Ala Leu Gln Asp Glu Lys Arg Arg Leu Glu Ala Arg Ile Ala Gln Leu
 1635 1640 1645
 Glu Glu Glu Leu Glu Glu Glu Gln Gly Asn Met Glu Ala Met Ser Asp
 1650 1655 1660
 Arg Val Arg Lys Ala Thr Gln Gln Ala Glu Gln Leu Ser Asn Glu Leu
 1665 1670 1675 1680
 Ala Thr Glu Arg Ser Thr Ala Gln Lys Asn Glu Ser Ala Arg Gln Gln
 1685 1690 1695
 Leu Glu Arg Gln Asn Lys Glu Leu Arg Ser Lys Leu His Glu Met Glu
 1700 1705 1710
 Gly Ala Val Lys Ser Lys Phe Lys Ser Thr Ile Ala Ala Leu Glu Ala
 1715 1720 1725
 Lys Ile Ala Gln Leu Glu Glu Gln Val Glu Gln Glu Ala Arg Glu Lys
 1730 1735 1740
 Gln Ala Ala Thr Lys Ser Leu Lys Gln Lys Asp Lys Lys Leu Lys Glu
 1745 1750 1755 1760
 Ile Leu Leu Gln Val Glu Asp Glu Arg Lys Met Ala Glu Gln Tyr Lys
 1765 1770 1775
 Glu Gln Ala Glu Lys Gly Asn Ala Arg Val Lys Gln Leu Lys Arg Gln
 1780 1785 1790
 Leu Glu Glu Ala Glu Glu Glu Ser Gln Arg Ile Asn Ala Asn Arg Arg
 1795 1800 1805
 Lys Leu Gln Arg Glu Leu Asp Glu Ala Thr Glu Ser Asn Glu Ala Met
 1810 1815 1820
 Gly Arg Glu Val Asn Ala Leu Lys Ser Lys Leu Arg Arg Gly Asn Glu
 1825 1830 1835 1840
 Thr Ser Phe Val Pro Ser Arg Arg Ser Gly Gly Arg Arg Val Ile Glu
 1845 1850 1855
 Asn Ala Asp Gly Ser Glu Glu Glu Thr Asp Thr Arg Asp Ala Asp Phe
 1860 1865 1870

Asn Gly Thr Lys Ala Ser Glu
1875 1879

<210> 1266
<211> 257
<212>Amino acid
<213> Homo sapiens

<400> 1266
Lys Leu His Phe Ala Lys Ser Leu Asn Ser Glu Leu Ser Cys Ser Thr
1 5 10 15
Arg Glu Ala Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys
20 25 30
Thr Arg Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp
35 40 45
Trp Arg Val Met Ala Leu Ile Leu Leu Ile Leu Cys Val Gly Met Val
50 55 60
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn Tyr
65 70 75 80
Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln Leu Ala
85 90 95
Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu Lys Gly Thr
100 105 110
Phe Lys Gly His Lys Cys Ser Pro Cys Asp Thr Asn Trp Arg Tyr Tyr
115 120 125
Gly Asp Ser Cys Tyr Gly Phe Phe Arg His Asn Leu Thr Trp Glu Glu
130 135 140
Ser Lys Gln Tyr Cys Thr Asp Met Asn Ala Thr Leu Leu Lys Ile Asp
145 150 155 160
Asn Arg Asn Ile Val Glu Tyr Ile Lys Ala Arg Thr His Leu Ile Arg
165 170 175
Trp Val Gly Leu Ser Arg Gln Lys Ser Asn Glu Val Trp Lys Trp Glu
180 185 190
Asp Gly Ser Val Ile Ser Glu Asn Met Phe Glu Phe Leu Glu Asp Gly
195 200 205
Lys Gly Asn Met Asn Cys Ala Tyr Phe His Asn Gly Lys Met His Pro
210 215 220
Thr Phe Cys Glu Asn Lys His Tyr Leu Met Cys Glu Arg Lys Ala Gly
225 230 235 240
His Asp Pro Arg Trp Thr Gln Leu Pro Leu Met Pro Lys Arg Trp Thr
245 250 255
Gly
257

<210> 1267
<211> 208
<212>Amino acid
<213> Homo sapiens

<400> 1267
Asn Gln Gly Leu Arg Asp Val Gly Leu Cys Arg Thr Cys Leu Val Asn
1 5 10 15
Lys Ile Phe Ala Ser Ser Ile Leu Gly Lys Ser His His His Ser Leu
20 25 30

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Val Ser Ile Asn Gln Gly His Asn Ala Pro Trp Lys Ala Ala Gly Ser
      35              40              45
Leu Pro Leu Lys Ala Ala Tyr Cys Gln Gly Phe Ser Pro Cys Asp Cys
      50              55              60
Leu Lys Tyr Gly Ser Trp Asp Glu Lys Asp Leu Met Val Pro Gln Pro
      65              70              75              80
Asp Thr His Lys Gly Ser Val Leu Arg Trp Ile Ser Lys Arg Gly Lys
      85              90              95
Pro Leu Ala Val Glu Met Glu Glu Gly His Cys Leu Cys Leu Pro Leu
      100             105             110
Gly Thr Glu Cys Leu Gly Val Lys Pro Ile Val His Leu Phe Asn Ser
      115             120             125
Glu Met Gly Glu Lys Arg Pro Val Ala Gly Ala Arg His Val Gly Ser
      130             135             140
Ser Ala Ala Leu Leu Phe Phe Thr Pro Leu Arg Cys Leu Gly Gly Glu
      145             150             155             160
Lys His Lys Ser Gly Leu Arg Ala Arg Pro Gly Ile Val Pro Ser Leu
      165             170             175
Glu Leu Asn Tyr Asp Ile Asp Ser Phe Ala His Met Phe Phe Ser Val
      180             185             190
Asp Leu Leu Leu Ile Ile Thr Leu Leu Ser Tyr Tyr Ile Pro Phe Cys
      195             200             205             208

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<210> 1268

<211> 158

<212>Amino acid

<213> Homo sapiens

<400> 1268

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Met Trp Trp Arg Leu Ala Pro Thr Gln Ala Ile Trp Arg Ala Ala Gly
  1              5              10              15
Cys Cys Met Arg Phe Ser Arg Arg Arg Ser Thr Cys Cys Cys Leu Ala
      20              25              30
Ser Cys Ile Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala
      35              40              45
Ala Lys Arg Arg Gln Arg Arg Arg Ala Ala Pro Ser Ala Pro Pro
      50              55              60
Gln Ala Ala Arg Leu His Pro Pro Pro Lys Leu Arg Arg Phe Asp Gly
      65              70              75              80
Val Gln Asp Pro Ala Pro Tyr Ser Trp Ala Ile Asn Gly Lys Val Phe
      85              90              95
Asp Val Thr Gln Arg Pro Ala Asn Phe Leu Arg Gly Pro Arg Gly Pro
      100             105             110
Glu Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His
      115             120             125
Val Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp
      130             135             140
Glu Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp *
      145             150             155             157

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<210> 1269

<211> 178

<212>Amino acid

<213> Homo sapiens

<400> 1269

Gly Pro Arg Met Ala Lys Phe Leu Ser Gln Asp Gln Ile Asn Glu Tyr
 1 5 10 15
 Lys Glu Cys Phe Ser Leu Tyr Asp Lys Gln Gln Arg Gly Lys Ile Lys
 20 25 30
 Ala Thr Asp Leu Met Val Ala Met Arg Cys Leu Gly Ala Ser Pro Thr
 35 40 45
 Pro Gly Glu Val Gln Arg His Leu Gln Thr His Gly Ile Asp Gly Asn
 50 55 60
 Gly Glu Leu Asp Phe Ser Thr Phe Leu Thr Ile Met His Met Gln Ile
 65 70 75 80
 Lys Gln Glu Asp Pro Lys Lys Glu Ile Leu Leu Ala Met Leu Met Val
 85 90 95
 Asp Lys Glu Lys Lys Gly Tyr Val Met Ala Ser Asp Leu Arg Ser Lys
 100 105 110
 Leu Thr Ser Leu Gly Glu Lys Leu Thr His Lys Glu Val Asp Asp Leu
 115 120 125
 Phe Arg Glu Ala Asp Ile Glu Pro Asn Gly Lys Val Lys Tyr Asp Glu
 130 135 140
 Phe Ile His Lys Ile Thr Leu Leu Pro Gly Arg Asp Leu Leu Lys Glu
 145 150 155 160
 Glu Asn Gly Arg Ala Ser Pro Gly Pro Glu Asn Leu Glu Gln Leu Ile
 165 170 175
 Phe Leu
 178

<210> 1270

<211> 457

<212> Amino acid

<213> Homo sapiens

<400> 1270

Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala
 1 5 10 15
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr
 20 25 30
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu
 35 40 45
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu
 50 55 60
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln
 65 70 75 80
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala
 85 90 95
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg
 100 105 110
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly
 115 120 125
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro
 130 135 140
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu
 145 150 155 160
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln
 165 170 175
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln
 180 185 190

Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala
 195 200 205
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp
 210 215 220
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln
 225 230 235 240
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln
 245 250 255
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp
 260 265 270
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe
 275 280 285
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly
 290 295 300
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg
 305 310 315 320
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu
 325 330 335
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser
 340 345 350
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val
 355 360 365
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His
 370 375 380
 Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp
 385 390 395 400
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg
 405 410 415
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys
 420 425 430
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile
 435 440 445
 Gln Pro Met Ala Ala Glu Ala Ala Ser
 450 455 457

<210> 1271

<211> 394

<212>Amino acid

<213> Homo sapiens

<400> 1271

Ala Leu Asp Phe Gly Asp Ser Cys Gln Trp Pro Arg Pro Gln Asp Thr
 1 5 10 15
 Met Lys Gln Leu Pro Val Leu Glu Pro Gly Asp Lys Pro Arg Lys Ala
 20 25 30
 Thr Trp Tyr Thr Leu Thr Val Pro Gly Asp Ser Pro Cys Ala Arg Val
 35 40 45
 Gly His Ser Cys Ser Tyr Leu Pro Pro Val Gly Asn Ala Lys Arg Gly
 50 55 60
 Lys Val Phe Ile Val Gly Gly Ala Asn Pro Asn Arg Ser Phe Ser Asp
 65 70 75 80
 Val His Thr Met Asp Leu Gly Lys His Gln Trp Asp Leu Asp Thr Cys
 85 90 95
 Lys Gly Leu Leu Pro Arg Tyr Glu His Ala Ser Phe Ile Pro Ser Cys
 100 105 110
 Thr Pro Asp Arg Ile Trp Val Phe Gly Gly Ala Asn Gln Ser Gly Asn
 115 120 125
 Arg Asn Cys Leu Gln Val Leu Asn Pro Glu Thr Arg Thr Trp Thr Thr
 130 135 140

Pro Glu Val Thr Ser Pro Pro Pro Ser Pro Arg Thr Phe His Thr Ser
 145 150 155 160
 Ser Ala Ala Ile Gly Asn Gln Leu Tyr Val Phe Gly Gly Gly Glu Arg
 165 170 175
 Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn
 180 185 190
 Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro
 195 200 205
 Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His
 210 215 220
 Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp
 225 230 235 240
 Ile Ser Asp Met Lys Trp Gln Lys Leu Asn Pro Thr Gly Ala Ala Pro
 245 250 255
 Ala Gly Cys Ala Ser His Thr Pro Ala Val Ala Met Gly Lys His Val
 260 265 270
 Tyr Ile Phe Gly Gly Met Thr Pro Ala Gly Ala Pro Gly Thr Gln Cys
 275 280 285
 Thr Gln Tyr His Thr Glu Glu Gln His Trp Asp Pro Cys Leu Lys Phe
 290 295 300
 Asp Thr Pro Ser Tyr Pro Pro Gly Thr Ile Gly Thr His Ser His Val
 305 310 315 320
 Val Ser Phe Pro Trp Pro Val Thr Cys Ala Ser Glu Lys Glu Asp Ser
 325 330 335
 Asn Ser Leu Thr Leu Asn His Glu Ala Glu Lys Glu Asp Ser Ala Asp
 340 345 350
 Lys Val Met Ser His Ser Gly Asp Ser His Glu Glu Ser Gln Thr Ala
 355 360 365
 Thr Leu Leu Cys Leu Val Phe Gly Gly Met Asn Thr Glu Gly Glu Ile
 370 375 380
 Tyr Asp Asp Cys Ile Val Thr Val Val Asp
 385 390 394

<210> 1272
 <211> 176
 <212> Amino acid
 <213> Homo sapiens

<400> 1272
 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
 1 5 10 15
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
 20 25 30
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
 35 40 45
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 50 55 60
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
 65 70 75 80
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
 85 90 95
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
 100 105 110
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
 115 120 125
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
 130 135 140
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
 145 150 155 160

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
 165 170 175 176

<210> 1273
 <211> 457
 <212> Amino acid
 <213> Homo sapiens

<400> 1273
 Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala
 1 5 10 15
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr
 20 25 30
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu
 35 40 45
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu
 50 55 60
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln
 65 70 75 80
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala
 85 90 95
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg
 100 105 110
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly
 115 120 125
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro
 130 135 140
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu
 145 150 155 160
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln
 165 170 175
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln
 180 185 190
 Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala
 195 200 205
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp
 210 215 220
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln
 225 230 235 240
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln
 245 250 255
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp
 260 265 270
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe
 275 280 285
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly
 290 295 300
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg
 305 310 315 320
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu
 325 330 335
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser
 340 345 350
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val
 355 360 365
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His
 370 375 380

Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp
 385 390 395 400
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg
 405 410 415
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys
 420 425 430
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile
 435 440 445
 Gln Pro Met Ala Ala Glu Ala Ala Ser
 450 455 457

<210> 1274
 <211> 359
 <212> Amino acid
 <213> Homo sapiens

<400> 1274
 Thr Leu Arg Ser Arg Pro Ala Gly Glu Ala Gly Tyr Leu Gly Trp Asp
 1 5 10 15
 Pro Glu Gln Ala Gly Glu Gly Ser Ala Leu Ser Arg Pro Gly Ala Met
 20 25 30
 Ala Ala Leu Met Thr Pro Gly Thr Gly Ala Pro Pro Ala Pro Gly Asp
 35 40 45
 Phe Ser Gly Glu Gly Ser Gln Gly Leu Pro Asp Pro Ser Pro Glu Pro
 50 55 60
 Lys Gln Leu Pro Glu Leu Ile Arg Met Lys Arg Asp Gly Gly Arg Leu
 65 70 75 80
 Ser Glu Ala Asp Ile Arg Gly Phe Val Ala Ala Val Val Asn Gly Ser
 85 90 95
 Ala Gln Gly Ala Gln Ile Gly Ala Trp Gly Gly Leu Gly Val Pro Asp
 100 105 110
 Pro Asp Trp Glu Val Ser Pro Arg Asp Phe Gly Ser Leu Gly Val Arg
 115 120 125
 Arg Cys Pro Thr Thr Ser Thr Gly Pro Arg Val Pro His Arg Cys Gly
 130 135 140
 Leu Pro Pro Ser Arg Val Pro Pro His Thr Arg Gly Met Leu Met Ala
 145 150 155 160
 Ile Arg Leu Arg Gly Met Asp Leu Glu Glu Thr Ser Val Leu Thr Gln
 165 170 175
 Ala Leu Ala Gln Ser Gly Gln Gln Leu Glu Trp Pro Glu Ala Trp Arg
 180 185 190
 Gln Gln Leu Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Lys Val
 195 200 205
 Ser Leu Val Leu Ala Pro Ala Leu Ala Ala Cys Gly Cys Lys Val Ile
 210 215 220
 Asn His Leu Leu Ser Arg Arg Glu Pro Ile Pro His Met Gln Gln Pro
 225 230 235 240
 Val His Pro Gln Ala Ala Pro Asn Leu Lys Pro Gly Pro Lys Pro Pro
 245 250 255
 Arg Pro Tyr Gln Gly Phe Ser Pro Pro Cys Ser Pro Ala Gln Phe Ser
 260 265 270
 Pro Pro Arg Ser Pro Ala Gln Arg Leu Gly Pro Leu Trp Leu Gln Thr
 275 280 285
 Arg Pro Leu Gly Ala Gly Lys Arg Ser Thr Asp Gly Ile Gln Thr Pro
 290 295 300
 Phe Pro Leu Gly Pro Gln Thr Ala Pro Pro Arg Glu Glu Leu Arg Thr
 305 310 315 320
 Ser Leu Pro Leu Pro Gln Ala Leu Phe Pro Gln Gly Gln Val Pro Thr
 325 330 335

Ser Ser Pro Thr Asp Thr Ser Gln Pro Arg Lys Leu Pro Phe His Ser
 340 345 350
 Leu Thr Ser Trp Ala Pro Leu
 355 359

<210> 1275
 <211> 146
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(146)
 <223> X = any amino acid or stop code

<400> 1275
 Arg Ala Leu Arg Glu Leu Arg Glu Arg Val Thr His Gly Leu Ala Glu
 1 5 10 15
 Ala Gly Arg Asp Arg Glu Asp Val Ser Thr Glu Leu Tyr Arg Ala Leu
 20 25 30
 Glu Ala Val Arg Leu Gln Asn Ser Glu Gly Ser Cys Glu Pro Cys Pro
 35 40 45
 Thr Ser Trp Leu Pro Phe Gly Gly Ser Cys Tyr Tyr Phe Ser Val Pro
 50 55 60
 Lys Thr Thr Trp Ala Glu Ala Gln Gly His Cys Ala Asp Ala Ser Ala
 65 70 75 80
 His Leu Ala Ile Val Gly Gly Leu Gly Glu Gln Asp Phe Leu Ser Arg
 85 90 95
 Asp Thr Ser Ala Leu Glu Tyr Trp Ile Gly Arg Arg Ala Val Gln His
 100 105 110
 Leu Arg Lys Val Gln Gly Tyr Ser Trp Val Asp Gly Val Pro Leu Ser
 115 120 125
 Phe Arg Xaa Trp Glu Gly His Pro Gly Glu Thr Trp Gly Pro Gln Val
 130 135 140
 Arg Leu
 145 146

<210> 1276
 <211> 187
 <212> Amino acid
 <213> Homo sapiens

<400> 1276
 Arg Trp Pro Arg Ser Trp Pro Pro Arg Ala Gly Ala Ala Arg Gly Ala
 1 5 10 15
 Ala Glu Ala Ala Met Val Gly Ala Leu Cys Gly Cys Trp Phe Arg Leu
 20 25 30
 Gly Gly Ala Arg Pro Leu Ile Pro Leu Gly Pro Thr Val Val Gln Thr
 35 40 45
 Ser Met Ser Arg Ser Gln Val Ala Leu Leu Gly Leu Ser Leu Leu Leu
 50 55 60
 Met Leu Leu Leu Tyr Val Gly Leu Pro Gly Pro Pro Glu Gln Thr Ser
 65 70 75 80
 Cys Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Gly Leu Thr Pro

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<210> 1277
<211> 481
<212> Amino acid
<213> Homo sapiens
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783

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305          310          315          320
Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu Arg Pro Lys Arg Thr Leu
          325          330          335
Arg Leu Val Leu Trp Thr Ala Glu Glu Gln Gly Gly Val Gly Ala Phe
          340          345          350
Gln Tyr Tyr Gln Leu His Lys Val Asn Ile Ser Asn Tyr Ser Leu Val
          355          360          365
Met Glu Ser Asp Ala Gly Thr Phe Leu Pro Thr Gly Leu Gln Phe Thr
          370          375          380
Gly Ser Glu Lys Ala Arg Ala Ile Met Glu Glu Val Met Ser Leu Leu
385          390          395          400
Gln Pro Leu Asn Ile Thr Gln Val Leu Ser His Gly Glu Gly Thr Asp
          405          410          415
Ile Asn Phe Trp Ile Gln Ala Gly Val Pro Gly Ala Ser Leu Leu Asp
          420          425          430
Asp Leu Tyr Lys Tyr Phe Phe Phe His His Ser His Gly Asp Thr Met
          435          440          445
Thr Val His Gly Ile Gln Thr Gln Met Asn Val Ala Ala Val Trp
          450          455          460
Ala Val Val Ser Tyr Val Val Ala Asp Met Glu Glu Met Leu Pro Arg
465          470          475          480
Ser
481

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<210> 1278
<211> 428
<212>Amino acid
<213> Homo sapiens

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<400> 1278
Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg
 1          5          10          15
Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly
          20          25          30
Arg Lys Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro
          35          40          45
Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro
          50          55          60
Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg
          65          70          75          80
Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu
          85          90          95
Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala
          100          105          110
Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala
          115          120          125
Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg
          130          135          140
Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser
145          150          155          160
Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu
          165          170          175
Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu
          180          185          190
Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro
          195          200          205
Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val
          210          215          220
Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro

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225 230 235 240
 Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp
 245 250 255
 Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His
 260 265 270
 Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro
 275 280 285
 Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met
 290 295 300
 Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His
 305 310 315 320
 Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
 325 330 335
 Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
 340 345 350
 Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
 355 360 365
 Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
 370 375 380
 Arg Lys Gly Glu His Leu Gly Glu Phe Asn Leu Gly Ser Thr Ile Val
 385 390 395 400
 Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys Thr Gly
 405 410 415
 Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
 420 425 428

<210> 1279
 <211> 633
 <212> Amino acid
 <213> Homo sapiens

<400> 1279
 Leu Pro Glu Arg Ala Phe Gly Pro Arg Thr Pro Arg Ala Pro Arg Arg
 1 5 10 15
 Arg Arg Arg Arg Leu Leu Leu Ser Pro Pro Pro Arg Pro Pro Pro
 20 25 30
 Leu Asp Arg Glu Pro Arg Ala Pro Gly Pro Trp Leu Cys Pro Ser Arg
 35 40 45
 Ala Gly Thr Ala Gln Asp Pro Ala Arg Ile Arg Glu Arg Arg Gly Arg
 50 55 60
 Val Ala Gly Gly Ala Ala Gly Pro Ala Met Glu Leu Arg Ala Arg Gly
 65 70 75 80
 Trp Trp Leu Leu Cys Ala Ala Ala Ala Leu Val Ala Cys Ala Arg Gly
 85 90 95
 Asp Pro Ala Ser Lys Ser Arg Ser Cys Gly Glu Val Arg Gln Ile Tyr
 100 105 110
 Gly Ala Lys Gly Phe Ser Ser Ser Asp Val Pro Gln Ala Glu Ile Ser
 115 120 125
 Gly Glu His Leu Arg Ile Cys Pro Gln Gly Tyr Thr Cys Cys Thr Ser
 130 135 140
 Glu Met Glu Glu Asn Leu Ala Asn Arg Ser His Ala Glu Leu Glu Thr
 145 150 155 160
 Ala Leu Arg Asp Ser Ser Arg Val Leu Gln Ala Met Leu Ala Thr Gln
 165 170 175
 Leu Arg Ser Phe Asp Asp His Phe Gln His Leu Leu Asn Asp Ser Glu
 180 185 190
 Arg Thr Leu Gln Ala Thr Phe Pro Gly Ala Phe Gly Glu Leu Tyr Thr
 195 200 205
 Gln Asn Ala Arg Ala Phe Arg Asp Leu Tyr Ser Glu Leu Arg Leu Tyr

210	215	220
Tyr Arg Gly Ala Asn Leu His Leu Glu Glu Thr Leu Ala Glu Phe Trp		
225	230	235
Ala Arg Leu Leu Glu Arg Leu Phe Lys Gln Leu His Pro Gln Leu Leu		
	245	250
Leu Pro Asp Asp Tyr Leu Asp Cys Leu Gly Lys Gln Ala Glu Ala Leu		255
	260	265
Arg Pro Phe Gly Glu Ala Pro Arg Glu Leu Arg Leu Arg Ala Thr Arg		270
	275	280
Ala Phe Val Ala Ala Arg Ser Phe Val Gln Gly Leu Gly Val Ala Ser		285
	290	295
Asp Val Val Arg Lys Val Ala Gln Val Pro Leu Gly Pro Glu Cys Ser		300
305	310	315
Arg Ala Val Ile Glu Ala Gly Ser Tyr Cys Ala Leu His Cys Val Gly		320
	325	330
Val Pro Gly Ala Arg Pro Cys Pro Asp Tyr Cys Arg Asn Val Leu Lys		335
	340	345
Gly Cys Leu Ala Asn Gln Ala Asp Leu Asp Ala Glu Trp Arg Asn Leu		350
	355	360
Leu Asp Ser Met Val Leu Ile Thr Asp Lys Phe Trp Gly Thr Ser Gly		365
	370	375
Val Glu Ser Val Ile Gly Ser Val His Thr Trp Leu Ala Glu Ala Ile		380
385	390	395
Asn Ala Leu Gln Asp Asn Arg Asp Thr Leu Thr Ala Lys Val Ile Gln		400
	405	410
Gly Cys Gly Asn Pro Lys Val Asn Pro Gln Gly Pro Gly Pro Glu Glu		415
	420	425
Lys Arg Arg Arg Gly Lys Leu Ala Pro Arg Glu Arg Pro Pro Ser Gly		430
	435	440
Thr Leu Glu Lys Leu Val Ser Glu Ala Lys Ala Gln Leu Arg Asp Val		445
	450	455
Gln Asp Phe Trp Ile Ser Leu Pro Gly Thr Leu Cys Ser Glu Lys Met		460
465	470	475
Ala Leu Ser Thr Ala Ser Asp Asp Arg Cys Trp Asn Gly Met Ala Arg		480
	485	490
Gly Arg Tyr Leu Pro Glu Val Met Gly Asp Gly Leu Ala Asn Gln Ile		495
	500	505
Asn Asn Pro Glu Val Glu Val Asp Ile Thr Lys Pro Asp Met Thr Ile		510
	515	520
Arg Gln Gln Ile Met Gln Leu Lys Ile Met Thr Asn Arg Leu Arg Ser		525
	530	535
Ala Tyr Asn Gly Asn Asp Val Asp Phe Gln Asp Ala Ser Asp Asp Gly		540
545	550	555
Ser Gly Ser Gly Ser Gly Asp Gly Cys Leu Asp Asp Leu Cys Gly Arg		560
	565	570
Lys Val Ser Arg Lys Ser Ser Ser Ser Arg Thr Pro Leu Thr His Ala		575
	580	585
Leu Pro Gly Leu Ser Glu Gln Glu Gly Gln Lys Thr Ser Ala Ala Ser		590
	595	600
Cys Pro Gln Pro Pro Thr Phe Leu Leu Pro Leu Leu Leu Phe Leu Ala		605
	610	615
Leu Thr Val Ala Arg Pro Arg Trp Arg		620
625	630	633

<210> 1280

<211> 133

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (133)

<223> X = any amino acid or stop code

<400> 1280

Ala Thr Glu Leu Thr Arg Ala Gly Met Glu Ala Ser Ala Leu Thr Lys
 1 5 10 15
 Ser Ala Val Thr Ser Val Ala Lys Val Val Arg Val Ala Ser Gly Ser
 20 25 30
 Ala Val Val Leu Pro Leu Ala Arg Ile Ala Thr Ser Cys Asp Xaa Arg
 35 40 45
 Val Gly Gly Pro Val Gln Ala Val Pro Met Val Leu Ser Ala Met Gly
 50 55 60
 Leu Gln Leu Arg Ala Gly Ile Ala Ser Ser Ser Ile Ala Ala Lys Met
 65 70 75 80
 Met Ser Ala Ala Ala Ile Ala Asn Gly Gly Gly Val Ser Pro Gly Gln
 85 90 95
 Pro Leu Trp Leu Leu Leu Gln Ser Leu Gly Ala Thr Gly Leu Ser Gly
 100 105 110
 Leu Thr Lys Phe Ile Leu Gly Ser Ile Gly Ser Ala Ile Ala Ala Val
 115 120 125
 Ile Ala Arg Phe Tyr
 130 133

<210> 1281

<211> 457

<212>Amino acid

<213> Homo sapiens

<400> 1281

Thr Asn Gly Arg Asn Leu Leu His His Trp Ile Leu Gly Val Cys Gly
 1 5 10 15
 Met His Pro His His Gln Glu Thr Leu Lys Lys Asn Arg Val Val Leu
 20 25 30
 Ala Lys Gln Leu Leu Leu Ser Glu Leu Leu Glu His Leu Leu Glu Lys
 35 40 45
 Asp Ile Ile Thr Leu Glu Met Arg Glu Leu Ile Gln Ala Lys Val Gly
 50 55 60
 Ser Phe Ser Gln Asn Val Glu Leu Leu Asn Leu Leu Pro Lys Arg Gly
 65 70 75 80
 Pro Gln Ala Phe Asp Ala Phe Cys Glu Ala Leu Arg Glu Thr Lys Gln
 85 90 95
 Gly His Leu Glu Asp Met Leu Leu Thr Thr Leu Ser Gly Leu Gln His
 100 105 110
 Val Leu Pro Pro Leu Ser Cys Asp Tyr Asp Leu Ser Leu Pro Phe Pro
 115 120 125
 Val Cys Glu Ser Cys Pro Leu Tyr Lys Lys Leu Arg Leu Ser Thr Asp
 130 135 140
 Thr Val Glu His Ser Leu Asp Asn Lys Asp Gly Pro Val Cys Leu Gln
 145 150 155 160
 Val Lys Pro Cys Thr Pro Glu Phe Tyr Gln Thr His Phe Gln Leu Ala
 165 170 175
 Tyr Arg Leu Gln Ser Arg Pro Arg Gly Leu Ala Leu Val Leu Ser Asn
 180 185 190
 Val His Phe Thr Gly Glu Lys Glu Leu Glu Phe Arg Ser Gly Gly Asp
 195 200 205
 Val Asp His Ser Thr Leu Val Thr Leu Phe Lys Leu Leu Gly Tyr Asp
 210 215 220

Val His Val Leu Cys Asp Gln Thr Ala Gln Glu Met Gln Glu Lys Leu
 225 230 235 240
 Gln Asn Phe Ala Gln Leu Pro Ala His Arg Val Thr Asp Ser Cys Ile
 245 250 255
 Val Ala Leu Leu Ser His Gly Val Glu Gly Ala Ile Tyr Gly Val Asp
 260 265 270
 Gly Lys Leu Leu Gln Leu Gln Glu Val Phe Gln Leu Phe Asp Asn Ala
 275 280 285
 Asn Cys Pro Ser Leu Gln Asn Lys Pro Lys Met Phe Phe Ile Gln Ala
 290 295 300
 Cys Arg Gly Gly Ala Ile Gly Ser Leu Gly His Leu Leu Leu Phe Thr
 305 310 315 320
 Ala Ala Thr Ala Ser Leu Ala Leu Glu Thr Asp Arg Gly Val Asp Gln
 325 330 335
 Gln Asp Gly Lys Asn His Ala Gly Ser Pro Gly Cys Glu Glu Ser Asp
 340 345 350
 Ala Gly Lys Glu Lys Leu Pro Lys Met Arg Leu Pro Thr Arg Ser Asp
 355 360 365
 Met Ile Cys Gly Tyr Ala Cys Leu Lys Gly Thr Ala Ala Met Arg Asn
 370 375 380
 Thr Lys Arg Gly Ser Trp Tyr Ile Glu Ala Leu Ala Gln Val Phe Ser
 385 390 395 400
 Glu Arg Ala Cys Asp Met His Val Ala Asp Met Leu Val Lys Val Asn
 405 410 415
 Ala Leu Ile Lys Asp Arg Glu Gly Tyr Ala Pro Gly Thr Glu Phe His
 420 425 430
 Arg Cys Lys Glu Met Ser Glu Tyr Cys Ser Thr Leu Cys Arg His Leu
 435 440 445
 Tyr Leu Phe Pro Gly His Pro Pro Thr
 450 455 457

<210> 1282

<211> 195

<212> Amino acid

<213> Homo sapiens

<400> 1282

Val Arg Gly Lys Glu Val Met Ala Ala Leu Cys Arg Thr Arg Ala Val
 1 5 10 15
 Ala Ala Glu Ser His Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe
 20 25 30
 Arg Gly Val Gly Thr Glu Ser Gly Ser Glu Ser Gly Ser Ser Asn Ala
 35 40 45
 Lys Glu Pro Lys Thr Arg Ala Gly Gly Phe Ala Ser Ala Leu Glu Arg
 50 55 60
 His Ser Glu Leu Leu Gln Lys Val Glu Pro Leu Gln Lys Gly Ser Pro
 65 70 75 80
 Lys Asn Val Glu Ser Phe Ala Ser Met Leu Arg His Ser Pro Leu Thr
 85 90 95
 Gln Met Gly Pro Ala Lys Asp Lys Leu Val Ile Gly Arg Ile Phe His
 100 105 110
 Ile Val Glu Asn Asp Leu Tyr Ile Asp Phe Gly Gly Lys Phe His Cys
 115 120 125
 Val Cys Arg Arg Pro Glu Val Asp Gly Glu Lys Tyr Gln Lys Gly Thr
 130 135 140
 Arg Val Arg Leu Arg Leu Asp Leu Glu Leu Thr Ser Arg Phe Leu
 145 150 155 160
 Gly Ala Thr Thr Asp Thr Thr Val Leu Glu Ala Asn Ala Val Leu Leu
 165 170 175

Gly Ile Gln Glu Ser Lys Asp Ser Arg Ser Lys Glu Glu His Leu Glu
 180 185 190
 Lys Tyr Ile
 195

<210> 1283
 <211> 1499
 <212> Amino acid
 <213> Homo sapiens

<400> 1283
 Ile Pro Gly Ala Ser Pro Ala Pro Arg Arg Ala Ala Pro Leu Arg Leu
 1 5 10 15
 Gly Leu Arg Leu Ala Ser Gly Trp Ala Arg Ala Pro Gly Gly Val Ser
 20 25 30
 Pro Val Pro Gly Pro Gly Met Gly Gly Asp Ala Pro Thr Met Ala Arg
 35 40 45
 Ala Gln Ala Leu Val Leu Glu Leu Thr Phe Gln Leu Cys Ala Pro Glu
 50 55 60
 Thr Glu Thr Pro Glu Val Gly Cys Thr Phe Glu Gly Ser Asp Pro
 65 70 75 80
 Ala Val Pro Cys Glu Tyr Ser Gln Ala Gln Tyr Asp Asp Phe Gln Trp
 85 90 95
 Glu Gln Val Arg Ile His Pro Gly Thr Arg Ala Pro Ala Asp Leu Pro
 100 105 110
 His Gly Ser Tyr Leu Met Val Asn Thr Ser Gln His Ala Pro Gly Gln
 115 120 125
 Arg Ala His Val Ile Phe Gln Ser Leu Ser Glu Asn Asp Thr His Cys
 130 135 140
 Val Gln Phe Ser Tyr Phe Leu Tyr Ser Arg Asp Gly His Ser Pro Gly
 145 150 155 160
 Thr Leu Gly Val Tyr Val Arg Val Asn Gly Gly Pro Leu Gly Ser Ala
 165 170 175
 Val Trp Asn Met Thr Gly Ser His Gly Arg Gln Trp His Gln Ala Glu
 180 185 190
 Leu Ala Val Ser Thr Phe Trp Pro Asn Glu Tyr Gln Val Leu Phe Glu
 195 200 205
 Ala Leu Ile Ser Pro Asp Arg Arg Gly Tyr Met Gly Leu Asp Asp Ile
 210 215 220
 Leu Leu Leu Ser Tyr Pro Cys Ala Lys Ala Pro His Phe Ser Arg Leu
 225 230 235 240
 Gly Asp Val Glu Val Asn Ala Gly Gln Asn Ala Ser Phe Gln Cys Met
 245 250 255
 Ala Ala Gly Arg Ala Ala Glu Ala Glu Arg Phe Leu Leu Gln Arg Gln
 260 265 270
 Ser Gly Ala Leu Val Pro Ala Ala Gly Val Arg His Ile Ser His Arg
 275 280 285
 Arg Phe Leu Ala Thr Phe Pro Leu Ala Ala Val Ser Arg Ala Glu Gln
 290 295 300
 Asp Leu Tyr Arg Cys Val Ser Gln Ala Pro Arg Gly Arg Gly Thr Ser
 305 310 315 320
 Leu Asn Phe Ala Glu Phe Met Val Lys Glu Pro Pro Thr Pro Ile Ala
 325 330 335
 Pro Pro Gln Leu Leu Arg Ala Gly Pro Thr Tyr Leu Ile Ile Gln Leu
 340 345 350
 Asn Thr Asn Ser Ile Ile Gly Asp Gly Pro Ile Val Arg Lys Glu Ile
 355 360 365
 Glu Tyr Arg Met Ala Arg Gly Pro Trp Ala Glu Val His Ala Val Ser
 370 375 380

Leu Gln Thr Tyr Lys Leu Trp His Leu Asp Pro Asp Thr Glu Tyr Glu
 385 390 395 400
 Ile Ser Val Leu Leu Thr Arg Pro Gly Asp Gly Gly Thr Gly Arg Pro
 405 410 415
 Gly Pro Pro Leu Ile Ser Arg Thr Lys Cys Ala Glu Pro Met Arg Ala
 420 425 430
 Pro Lys Gly Leu Ala Phe Ala Glu Ile Gln Ala Arg Gln Leu Thr Leu
 435 440 445
 Gln Trp Glu Pro Leu Gly Tyr Asn Val Thr Arg Cys His Thr Tyr Thr
 450 455 460
 Val Ser Leu Cys Tyr His Tyr Thr Leu Gly Ser Ser His Asn Gln Thr
 465 470 475 480
 Ile Arg Glu Cys Val Lys Thr Glu Gln Gly Val Ser Arg Tyr Thr Met
 485 490 495
 Lys Asn Leu Leu Pro Tyr Arg Asn Val His Val Arg Leu Val Leu Thr
 500 505 510
 Asn Pro Glu Gly Arg Lys Glu Gly Lys Glu Val Thr Phe Gln Thr Asp
 515 520 525
 Glu Asp Val Pro Ser Gly Ile Ala Ala Glu Ser Leu Thr Phe Thr Pro
 530 535 540
 Leu Glu Asp Met Ile Phe Leu Lys Trp Glu Glu Pro Gln Glu Pro Asn
 545 550 555 560
 Gly Leu Ile Thr Gln Tyr Glu Ile Ser Tyr Gln Ser Ile Glu Ser Ser
 565 570 575
 Asp Pro Ala Val Asn Val Pro Gly Pro Arg Arg Thr Ile Ser Lys Leu
 580 585 590
 Arg Asn Glu Thr Tyr His Val Phe Ser Asn Leu His Pro Gly Thr Thr
 595 600 605
 Tyr Leu Phe Ser Val Arg Ala Arg Thr Gly Lys Gly Phe Gly Gln Ala
 610 615 620
 Ala Leu Thr Glu Ile Thr Thr Asn Ile Ser Ala Pro Ser Phe Asp Tyr
 625 630 635 640
 Ala Asp Met Pro Ser Pro Leu Gly Glu Ser Glu Asn Thr Ile Thr Val
 645 650 655
 Leu Leu Arg Pro Ala Gln Gly Arg Gly Ala Pro Ile Ser Val Tyr Gln
 660 665 670
 Val Ile Val Glu Glu Glu Gln Gly Ser Arg Arg Leu Arg Arg Glu Pro
 675 680 685
 Gly Gly Gln Asp Cys Phe Pro Val Pro Leu Thr Phe Glu Ala Ala Leu
 690 695 700
 Ala Arg Gly Leu Val Asp Tyr Phe Gly Ala Glu Leu Ala Ala Ser Ser
 705 710 715 720
 Leu Pro Glu Ala Met Pro Phe Thr Val Gly Asp Asn Lys Thr Tyr Arg
 725 730 735
 Gly Phe Trp Asn Pro Pro Leu Glu Pro Arg Lys Ala Tyr Leu Ile Tyr
 740 745 750
 Phe Gln Ala Ala Ser His Leu Lys Gly Glu Thr Arg Leu Asn Cys Ile
 755 760 765
 Arg Ile Ala Arg Lys Ala Ala Cys Lys Glu Ser Lys Arg Pro Leu Glu
 770 775 780
 Val Ser Gln Arg Ser Glu Glu Met Gly Leu Ile Leu Gly Ile Cys Ala
 785 790 795 800
 Gly Gly Leu Ala Val Leu Ile Leu Leu Leu Gly Ala Ile Ile Val Ile
 805 810 815
 Ile Arg Lys Gly Arg Asp His Tyr Ala Tyr Ser Tyr Tyr Pro Lys Pro
 820 825 830
 Val Asn Met Thr Lys Ala Thr Val Asn Tyr Arg Gln Glu Lys Thr His
 835 840 845
 Met Met Ser Ala Val Asp Arg Ser Phe Thr Asp Gln Ser Thr Leu Gln
 850 855 860
 Glu Asp Glu Arg Leu Gly Leu Ser Phe Met Asp Thr His Gly Tyr Ser
 865 870 875 880
 Thr Arg Gly Asp Gln Arg Ser Gly Gly Val Thr Glu Ala Ser Ser Leu
 885 890 895

Leu Gly Gly Ser Pro Arg Arg Pro Cys Gly Arg Lys Gly Ser Pro Tyr
 900 905 910
 His Thr Gly Gln Leu His Pro Ala Val Arg Val Ala Asp Leu Leu Gln
 915 920 925
 His Ile Asn Gln Met Lys Thr Ala Glu Gly Tyr Gly Phe Lys Gln Glu
 930 935 940
 Tyr Glu Ser Phe Phe Glu Gly Trp Asp Ala Thr Lys Lys Lys Asp Lys
 945 950 955 960
 Val Lys Gly Ser Arg Gln Glu Pro Met Pro Ala Tyr Asp Arg His Arg
 965 970 975
 Val Lys Leu His Pro Met Leu Gly Asp Pro Asn Ala Asp Tyr Ile Asn
 980 985 990
 Ala Asn Tyr Ile Asp Ile Arg Ile Asn Arg Glu Gly Tyr His Arg Ser
 995 1000 1005
 Asn His Phe Ile Ala Thr Gln Gly Pro Lys Pro Glu Met Val Tyr Asp
 1010 1015 1020
 Phe Trp Arg Met Val Trp Gln Glu His Cys Ser Ser Ile Val Met Ile
 1025 1030 1035 1040
 Thr Lys Leu Val Glu Val Gly Arg Val Lys Cys Ser Arg Tyr Trp Pro
 1045 1050 1055
 Glu Asp Ser Asp Thr Tyr Gly Asp Ile Lys Ile Met Leu Val Lys Thr
 1060 1065 1070
 Glu Thr Leu Ala Glu Tyr Val Val Arg Thr Phe Ala Leu Glu Arg Arg
 1075 1080 1085
 Gly Tyr Ser Ala Arg His Glu Val Arg Gln Phe His Phe Thr Ala Trp
 1090 1095 1100
 Pro Glu His Gly Val Pro Tyr His Ala Thr Gly Leu Leu Ala Phe Ile
 1105 1110 1115 1120
 Arg Arg Val Lys Ala Ser Thr Pro Pro Asp Ala Gly Pro Ile Val Ile
 1125 1130 1135
 His Cys Ser Ala Gly Thr Gly Arg Thr Gly Cys Tyr Ile Val Leu Asp
 1140 1145 1150
 Val Met Leu Asp Met Ala Glu Cys Glu Gly Val Val Asp Ile Tyr Asn
 1155 1160 1165
 Cys Val Lys Thr Leu Cys Ser Arg Arg Val Asn Met Ile Gln Thr Glu
 1170 1175 1180
 Glu Gln Tyr Ile Phe Ile His Asp Ala Ile Leu Glu Ala Cys Leu Cys
 1185 1190 1195 1200
 Gly Glu Thr Thr Ile Pro Val Ser Glu Phe Lys Ala Thr Tyr Lys Glu
 1205 1210 1215
 Met Ile Arg Ile Asp Pro Gln Ser Asn Ser Ser Gln Leu Arg Glu Glu
 1220 1225 1230
 Phe Gln Thr Leu Asn Ser Val Thr Pro Pro Leu Asp Val Glu Glu Cys
 1235 1240 1245
 Ser Ile Ala Leu Leu Pro Arg Asn Arg Asp Lys Asn Arg Ser Met Asp
 1250 1255 1260
 Val Leu Pro Pro Asp Arg Cys Leu Pro Phe Leu Ile Ser Thr Asp Gly
 1265 1270 1275 1280
 Asp Ser Asn Asn Tyr Ile Asn Ala Ala Leu Thr Asp Ser Tyr Thr Arg
 1285 1290 1295
 Ser Ala Ala Phe Ile Val Thr Leu His Pro Leu Gln Ser Thr Thr Pro
 1300 1305 1310
 Asp Phe Trp Gly Leu Val Tyr Asp Tyr Gly Cys Thr Ser Ile Val Met
 1315 1320 1325
 Leu Asn Gln Leu Asn Gln Ser Asn Ser Ala Trp Pro Cys Leu Gln Tyr
 1330 1335 1340
 Trp Pro Glu Pro Gly Arg Gln Gln Tyr Gly Leu Met Glu Val Glu Phe
 1345 1350 1355 1360
 Met Ser Gly Thr Ala Asp Glu Asp Leu Val Ala Arg Val Phe Arg Val
 1365 1370 1375
 Gln Asn Ile Ser Arg Leu Gln Glu Gly His Leu Leu Val Arg His Phe
 1380 1385 1390
 Gln Phe Leu Arg Trp Ser Ala Tyr Arg Asp Thr Pro Asp Ser Lys Lys
 1395 1400 1405

Ala Phe Leu His Leu Leu Ala Glu Gly Asp Lys Trp Gln Ala Glu Ser
 1410 1415 1420
 Gly Asp Gly Arg Thr Ile Val His Cys Leu Asn Gly Gly Arg Ser
 1425 1430 1435 1440
 Gly Thr Phe Cys Ala Cys Ala Thr Val Leu Glu Met Ile Arg Cys His
 1445 1450 1455
 Asn Leu Val Asp Val Phe Phe Ala Ala Lys Thr Leu Arg Asn Tyr Lys
 1460 1465 1470
 Pro Asn Met Val Glu Thr Met Asp Gln Tyr His Phe Cys Tyr Asp Val
 1475 1480 1485
 Ala Leu Glu Tyr Leu Glu Gly Leu Glu Ser Arg
 1490 1495 1499

<210> 1284
 <211> 430
 <212> Amino acid
 <213> Homo sapiens

<400> 1284
 Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg
 1 5 10 15
 Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly
 20 25 30
 Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro
 35 40 45
 Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro
 50 55 60
 Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg
 65 70 75 80
 Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu
 85 90 95
 Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala
 100 105 110
 Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala
 115 120 125
 Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg
 130 135 140
 Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser
 145 150 155 160
 Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu
 165 170 175
 Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu
 180 185 190
 Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro
 195 200 205
 Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val
 210 215 220
 Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro
 225 230 235 240
 Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp
 245 250 255
 Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His
 260 265 270
 Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro
 275 280 285
 Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met
 290 295 300
 Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His
 305 310 315 320

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Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
      325      330      335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
      340      345      350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
      355      360      365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
      370      375      380
Ala Leu Arg Gly Glu His Leu Gly Gln Ser Phe Asn Leu Gly Ser Thr
385      390      395      400
Ile Val Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys
      405      410      415
Thr Gly Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
      420      425      430

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<210> 1285

<211> 957

<212>Amino acid

<213> Homo sapiens

<400> 1285

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Ala Glu Leu Gly Leu Phe Gly Ser Leu Arg Phe Ser Ser Leu Leu His
  1      5      10      15
Phe Pro Pro Arg Pro Arg Ser Pro Ala Ser Ala Cys Gly Pro Gly Glu
      20      25      30
Gly Arg Met Glu Arg Gly Leu Pro Leu Leu Cys Ala Val Leu Ala Leu
      35      40      45
Val Leu Ala Pro Ala Gly Ala Phe Arg Asn Asp Lys Cys Gly Asp Thr
      50      55      60
Ile Lys Ile Glu Ser Pro Gly Tyr Leu Thr Ser Pro Gly Tyr Pro His
      65      70      75      80
Ser Tyr His Pro Ser Glu Lys Cys Glu Trp Leu Ile Gln Ala Pro Asp
      85      90      95
Pro Tyr Gln Arg Ile Met Ile Asn Phe Asn Pro His Phe Asp Leu Glu
      100      105      110
Asp Arg Asp Cys Lys Tyr Asp Tyr Val Glu Val Phe Asp Gly Glu Asn
      115      120      125
Glu Asn Gly His Phe Arg Gly Lys Phe Cys Gly Lys Ile Ala Pro Pro
      130      135      140
Pro Val Val Ser Ser Gly Pro Phe Leu Phe Ile Lys Phe Val Ser Asp
145      150      155      160
Tyr Glu Thr His Gly Ala Gly Phe Ser Ile Arg Tyr Glu Ile Phe Lys
      165      170      175
Arg Gly Pro Glu Cys Ser Gln Asn Tyr Thr Thr Pro Ser Gly Val Ile
      180      185      190
Lys Ser Pro Gly Phe Pro Glu Lys Tyr Pro Asn Ser Leu Glu Cys Thr
      195      200      205
Tyr Ile Val Phe Ala Pro Lys Met Ser Glu Ile Ile Leu Asp Phe Glu
210      215      220
Ser Phe Asp Leu Glu Pro Asp Ser Asn Pro Pro Gly Gly Met Phe Cys
225      230      235      240
Arg Tyr Asp Arg Leu Glu Ile Trp Asp Gly Phe Pro Asp Val Gly Pro
      245      250      255
His Ile Gly Arg Tyr Cys Gly Gln Lys Thr Pro Gly Arg Ile Arg Ser
      260      265      270
Ser Ser Gly Ile Leu Ser Met Val Phe Tyr Thr Asp Ser Ala Ile Ala
      275      280      285
Lys Glu Gly Phe Ser Ala Asn Tyr Ser Val Leu Gln Ser Ser Val Ser
290      295      300

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Glu Asp Phe Lys Cys Met Glu Ala Leu Gly Met Glu Ser Gly Glu Ile
 305 310 315 320
 His Ser Asp Gln Ile Thr Ala Ser Ser Gln Tyr Ser Thr Asn Trp Ser
 325 330 335
 Ala Glu Arg Ser Arg Leu Asn Tyr Pro Glu Asn Gly Trp Thr Pro Gly
 340 345 350
 Glu Asp Ser Tyr Arg Glu Trp Ile Gln Val Asp Leu Gly Leu Leu Arg
 355 360 365
 Phe Val Thr Ala Val Gly Thr Gln Gly Ala Ile Ser Lys Glu Thr Lys
 370 375 380
 Lys Lys Tyr Tyr Val Lys Thr Tyr Lys Ile Asp Val Ser Ser Asn Gly
 385 390 395 400
 Glu Asp Trp Ile Thr Ile Lys Glu Gly Asn Lys Pro Val Leu Phe Gln
 405 410 415
 Gly Asn Thr Asn Pro Thr Asp Val Val Val Ala Val Phe Pro Lys Pro
 420 425 430
 Leu Ile Thr Arg Phe Val Arg Ile Lys Pro Ala Thr Trp Glu Thr Gly
 435 440 445
 Ile Ser Met Arg Phe Glu Val Tyr Gly Cys Lys Ile Thr Asp Tyr Pro
 450 455 460
 Cys Ser Gly Met Leu Gly Met Val Ser Gly Leu Ile Ser Asp Ser Gln
 465 470 475 480
 Ile Thr Ser Ser Asn Gln Gly Asp Arg Asn Trp Met Pro Glu Asn Ile
 485 490 495
 Arg Leu Val Thr Ser Arg Ser Gly Trp Ala Leu Pro Pro Ala Pro His
 500 505 510
 Ser Tyr Ile Asn Glu Trp Leu Gln Ile Asp Leu Gly Glu Glu Lys Ile
 515 520 525
 Val Arg Gly Ile Ile Ile Gln Gly Gly Lys His Arg Glu Asn Lys Val
 530 535 540
 Phe Met Arg Lys Phe Lys Ile Gly Tyr Ser Asn Asn Gly Ser Asp Trp
 545 550 555 560
 Lys Met Ile Met Asp Ser Lys Arg Lys Ala Lys Ser Phe Glu Gly
 565 570 575
 Asn Asn Asn Tyr Asp Thr Pro Glu Leu Arg Thr Phe Pro Ala Leu Ser
 580 585 590
 Thr Arg Phe Ile Arg Ile Tyr Pro Glu Arg Ala Thr His Gly Gly Leu
 595 600 605
 Gly Leu Arg Met Glu Leu Leu Gly Cys Glu Val Glu Ala Pro Thr Ala
 610 615 620
 Gly Pro Thr Thr Pro Asn Gly Asn Leu Val Asp Glu Cys Asp Asp Asp
 625 630 635 640
 Gln Ala Asn Cys His Ser Gly Thr Gly Asp Asp Phe Gln Leu Thr Gly
 645 650 655
 Gly Thr Thr Val Leu Ala Thr Glu Lys Pro Thr Val Ile Asp Ser Thr
 660 665 670
 Ile Gln Ser Glu Phe Pro Thr Tyr Gly Phe Asn Cys Glu Phe Gly Trp
 675 680 685
 Gly Ser His Lys Thr Phe Cys His Trp Glu His Asp Asn His Val Gln
 690 695 700
 Leu Lys Trp Ser Val Leu Thr Ser Lys Thr Gly Pro Ile Gln Asp His
 705 710 715 720
 Thr Gly Asp Gly Asn Phe Ile Tyr Ser Gln Ala Asp Glu Asn Gln Lys
 725 730 735
 Gly Lys Val Ala Arg Leu Val Ser Pro Val Val Tyr Ser Gln Asn Ser
 740 745 750
 Ala His Cys Met Thr Phe Trp Tyr His Met Ser Gly Ser His Val Gly
 755 760 765
 Thr Leu Arg Val Lys Leu Arg Tyr Gln Lys Pro Glu Glu Tyr Asp Gln
 770 775 780
 Leu Val Trp Met Ala Ile Gly His Gln Gly Asp His Trp Lys Glu Gly
 785 790 795 800
 Arg Val Leu Leu His Lys Ser Leu Lys Leu Tyr Gln Val Ile Phe Glu
 805 810 815

Gly Glu Ile Gly Lys Gly Asn Leu Gly Gly Ile Ala Val Asp Asp Ile
 820 825 830
 Ser Ile Asn Asn His Ile Ser Gln Glu Asp Cys Ala Lys Pro Ala Asp
 835 840 845
 Leu Asp Lys Lys Asn Pro Glu Ile Lys Ile Asp Glu Thr Gly Ser Thr
 850 855 860
 Pro Gly Tyr Glu Gly Glu Gly Glu Gly Asp Lys Asn Ile Ser Arg Lys
 865 870 875 880
 Pro Gly Asn Val Leu Lys Thr Leu Glu Pro Ile Leu Ile Thr Ile Ile
 885 890 895
 Ala Met Ser Ala Leu Gly Val Leu Leu Gly Ala Val Cys Gly Val Val
 900 905 910
 Leu Tyr Cys Ala Cys Trp His Asn Gly Met Ser Glu Arg Asn Leu Ser
 915 920 925
 Ala Leu Glu Asn Tyr Asn Phe Glu Leu Val Asp Gly Val Lys Leu Lys
 930 935 940
 Lys Asp Lys Leu Asn Thr Gln Ser Thr Tyr Ser Glu Ala
 945 950 955 957

<210> 1286
 <211> 173
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(173)
 <223> X = any amino acid or stop code

<400> 1286
 His Glu Gly Ser Ala Leu Thr Trp Ala Ser His Tyr Gln Glu Arg Leu
 1 5 10 15
 Asn Ser Glu Gln Ser Cys Leu Asn Glu Trp Thr Ala Met Ala Asp Leu
 20 25 30
 Glu Ser Leu Arg Pro Pro Ser Ala Glu Pro Gly Gly Ser Val Cys Gly
 35 40 45
 Gly Glu Gly Leu Gly Gly Gly Glu Gly Arg Ile Met Gln Trp Gly Ala
 50 55 60
 Trp Trp Arg Gly Glu Arg Ala Pro Xaa Leu Arg Gly Ser Ala Pro Arg
 65 70 75 80
 Ser Ser Glu Gln Glu Gln Met Glu Gln Ala Ile Arg Ala Glu Leu Trp
 85 90 95
 Lys Val Leu Asp Val Ser Asp Leu Glu Ser Val Thr Ser Lys Glu Ile
 100 105 110
 Arg Gln Ala Leu Glu Leu Arg Leu Gly Leu Pro Leu Gln Pro Val Pro
 115 120 125
 Xaa Leu His Arg Gln Pro Asp Ala Ala Ala Gly Gly Thr Ala Gly Pro
 130 135 140
 Ser Leu Pro His Leu Pro Pro Pro Leu Pro Gly Leu Arg Val Glu Arg
 145 150 155 160
 Ser Lys Pro Gly Gly Ala Ala Glu Glu Gln Val Gly Leu
 165 170 173

<210> 1287
 <211> 181
 <212> Amino acid
 <213> Homo sapiens

<400> 1287

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Met Ala Ala Leu Asp Leu Arg Ala Glu Leu Asp Ser Leu Val Leu Gln
 1          5          10          15
Leu Leu Gly Asp Leu Glu Glu Leu Glu Gly Lys Arg Thr Val Leu Asn
          20          25          30
Ala Arg Val Glu Glu Gly Trp Leu Ser Leu Ala Lys Ala Arg Tyr Ala
          35          40          45
Met Gly Ala Lys Ser Val Gly Pro Leu Gln Tyr Ala Ser His Met Glu
 50          55          60
Pro Gln Val Cys Leu His Ala Ser Glu Ala Gln Glu Gly Leu Gln Lys
 65          70          75          80
Phe Lys Val Val Arg Ala Gly Val His Ala Pro Glu Glu Val Gly Pro
          85          90          95
Arg Glu Ala Gly Leu Arg Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu
          100          105          110
Pro Glu Ser Ser Glu Ala Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile
          115          120          125
Leu Val Pro His Ser Leu Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly
 130          135          140
Leu Gln Leu Ala Ala Asp Ile Ala Ser Leu Gln Asn Arg Ile Asp Trp
 145          150          155          160
Gly Arg Ser Gln Leu Arg Gly Leu Gln Glu Lys Leu Lys Gln Leu Glu
          165          170          175
Pro Gly Ala Ala *
          180

```

<210> 1288

<211> 216

<212>Amino acid

<213> Homo sapiens

<400> 1288

```

His Ser Asp Val Gly Ala Ala Thr Ala Val Leu Pro Leu Leu Thr Ala
 1          5          10          15
Val Leu Gly Val Thr Val Val Thr Arg Arg Asp Thr Glu Gly Pro Gly
          20          25          30
Arg Ala Ala Leu Val His Leu Thr Gly Ser Pro Arg Gln Lys Val Gly
          35          40          45
Thr Ser Gly Arg Glu Gly Leu Pro Gly Leu Gly Ala Ser Cys Ala Glu
 50          55          60
Ser Glu Leu Glu Arg Glu Thr Gln Glu Pro Arg Ser Arg Gly Arg Cys
 65          70          75          80
Ile Phe Gly Ala Ala Arg Trp Arg Gln Val Pro Leu Ala Ser Pro Gln
          85          90          95
Arg Pro Phe Leu Leu Ser Pro Gly Pro Arg Leu His Arg Met Gly Leu
          100          105          110
Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly Cys Cys Ala
          115          120          125
Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg Arg Pro Glu
 130          135          140
Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg Ala Arg Leu
 145          150          155          160
Gln Gly Ser Ala Thr Ala Ala Glu Ala Val Ser Ala Lys Leu Ser Arg
          165          170          175
Gly Pro Gly Trp Gly Pro Gln Gly Thr Asp Gln Pro Ser Ser Pro Pro

```



```

      180      185      190
Val Pro Thr Glu Ala Asp Pro Pro Leu Leu Pro Gln Gln Val Gly His
      195      200      205
Gln Thr Ala Arg Ala Ala Pro Gly
      210      215 216

```

```

<210> 1289
<211> 148
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(148)
<223> X = any amino acid or stop code

```

```

<400> 1289
Leu Thr Gly Pro Gly Gln Arg Leu Ala Gly Thr Thr Glu Gly Pro Arg
 1          5          10          15
Arg Cys Arg Gly Ser Ser Gln Ala Pro Thr Pro Thr Trp Lys Leu Val
      20      25      30
Asp Thr Arg Leu Cys Ala Ala Ala Pro Trp Leu Ala Ser Arg Ala Pro
      35      40      45
Gly His Tyr Ser Gln Met Leu Leu Val Asn Xaa Pro Cys Arg Lys Asp
      50      55      60
Trp Leu Val Ser Lys Trp Met Arg Thr Pro Val Cys Gly Gln Ser Pro
      65      70      75      80
Ala Met Thr Asp Arg Pro Arg Ser Glu Ala Gly Arg Asp His Arg Arg
      85      90      95
Ala Lys Ala Leu Pro Gly Leu Ile Pro Gly Ser Asn Pro Asn Leu Glu
      100      105      110
Ala Cys Gly His Gln Ala Leu Cys Ser Ser Ser Val Ala Ser Val Gln
      115      120      125
Gly Pro Trp Pro Leu Leu Pro Asn Ala Ser Ser Pro Pro Thr Pro Gly
      130      135      140
Gln Pro Gln Pro
145          148

```

```

<210> 1290
<211> 170
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(170)
<223> X = any amino acid or stop code

```

```

<400> 1290
Lys His Arg Leu Cys Ser Leu Glu Gln Leu Met Thr Leu Ile Ser Ala
 1          5          10          15
Ala Arg Glu Tyr Glu Ile Glu Phe Ile Tyr Ala Ile Ser Pro Gly Leu
      20      25      30
Asp Ile Thr Phe Ser Asn Pro Lys Glu Val Ser Thr Leu Lys Arg Lys

```

```

      35      40      45
Leu Asp Gln Val Ser Gln Phe Gly Cys Arg Ser Phe Ala Leu Leu Phe
  50      55      60
Asp Asp Ile Asp His Asn Met Cys Ala Ala Asp Lys Glu Val Phe Ser
  65      70      75      80
Ser Phe Ala His Ala Gln Val Ser Ile Thr Asn Glu Ile Tyr Gln Tyr
      85      90      95
Leu Gly Glu Pro Glu Thr Phe Leu Phe Cys Pro Thr Glu Tyr Cys Ile
      100      105      110
Xaa Trp Leu Tyr Ile Xaa Leu Val Phe Leu Glu Tyr Ile Thr Tyr Lys
      115      120      125
Gly Pro Trp Ala Pro Phe Ser Leu His Phe Pro Pro Pro Leu Val Cys
      130      135      140
Lys Ser Arg Asn Leu Phe Leu Glu Asp Ile Phe Gln Asp Pro Lys Leu
145      150      155      160
Glu Lys Phe Xaa Glu Leu Ile Asn Asp Asn
      165      170

```

<210> 1291
 <211> 98
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1291
Thr Ser Ala Leu Thr Gln Gly Leu Glu Arg Ile Pro Asp Gln Leu Gly
  1      5      10      15
Tyr Leu Val Leu Ser Glu Gly Ala Val Leu Ala Ser Ser Gly Asp Leu
      20      25      30
Glu Asn Asp Glu Gln Ala Ala Ser Ala Ile Ser Glu Leu Val Ser Thr
      35      40      45
Ala Cys Gly Phe Arg Leu His Arg Gly Met Asn Val Pro Phe Lys Arg
      50      55      60
Leu Ser Val Val Phe Gly Glu His Thr Leu Leu Val Thr Val Ser Gly
      65      70      75      80
Gln Arg Val Phe Val Val Lys Arg Gln Asn Arg Gly Arg Glu Pro Ile
      85      90      95
Asp Val
  98

```

<210> 1292
 <211> 142
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1292
Ala Lys Arg Ala Glu Arg Thr Ser Arg Leu Gln Gly Leu Gln His Pro
  1      5      10      15
Ser Pro Pro Tyr Pro Pro Ala Thr Leu Gly Val Thr Pro Gly Gln Asp
      20      25      30
Arg Thr Leu Gln Leu Gln His Gln Cys Pro Ala Gly Arg Lys Ser Arg
      35      40      45
Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser Pro Glu Asp Arg Val Glu
      50      55      60
Asp Ala Leu Pro Pro Ser Lys Ala Pro Ser Arg Thr Arg Arg Ala Lys

```

```

65          70          75          80
Arg Asp Leu Pro Lys Arg Thr Ala Thr Gln Arg Pro Glu Gly Thr Ser
      85          90          95
Leu Gln Gln Asp Pro Glu Ala Pro Thr Val Pro Lys Lys Gly Arg Arg
      100        105        110
Lys Gly Arg Gln Ala Ala Ser Gly His Cys Arg Pro Arg Lys Val Lys
      115        120        125
Ala Asp Ile Pro Ser Leu Glu Pro Glu Gly Thr Ser Ala Ser
      130        135        140        142

```

<210> 1293

<211> 89

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(89)

<223> X = any amino acid or stop code

<400> 1293

```

Arg Lys Ser Ser Trp Leu Gly Ala Val Ala His Ala Cys Asn Pro Ser
1          5          10          15
Ser Leu Gly Gly Pro Gly Arg Gln Ile Thr Arg Ser Gly Val Arg Asp
      20          25          30
Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Thr
      35          40          45
Leu Ala Gly Arg Gly Gly Ala Cys Leu Xaa Ser His Ile Leu Arg Arg
      50          55          60
Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly Cys Ser Glu
      65          70          75          80
Leu Arg Ser Arg His Cys Ala Pro Ala
      85          89

```

<210> 1294

<211> 80

<212>Amino acid

<213> Homo sapiens

<400> 1294

```

Ala Trp Asn Ser Ala Arg Gly Ala Val Ser Pro Leu Trp Val Pro Gly
1          5          10          15
Cys Phe Leu Thr Leu Ser Val Thr Trp Ile Gly Ala Ala Pro Leu Ile
      20          25          30
Leu Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His Ser Gln Pro
      35          40          45
Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val Cys Gly Gly Val
      50          55          60
Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys Ile Arg Lys
      65          70          75          80

```

<210> 1295
 <211> 281
 <212>Amino acid
 <213> Homo sapiens

<400> 1295
 Ala Glu Met Ala Asp Asp Leu Gly Asp Glu Trp Trp Glu Asn Gln Pro
 1 5 10 15
 Thr Gly Ala Gly Ser Ser Pro Glu Ala Ser Asp Gly Glu Gly Glu Gly
 20 25 30
 Asp Thr Glu Val Met Gln Gln Glu Thr Val Pro Val Pro Val Pro Ser
 35 40 45
 Glu Lys Thr Lys Gln Pro Lys Glu Cys Phe Leu Ile Gln Pro Lys Glu
 50 55 60
 Arg Lys Glu Asn Thr Thr Lys Thr Arg Lys Arg Arg Lys Lys Lys Ile
 65 70 75 80
 Thr Asp Val Leu Ala Lys Ser Glu Pro Lys Pro Gly Leu Pro Glu Asp
 85 90 95
 Leu Gln Lys Leu Met Lys Asp Tyr Tyr Ser Ser Arg Arg Leu Val Ile
 100 105 110
 Glu Leu Glu Glu Leu Asn Leu Pro Asp Ser Cys Phe Leu Lys Ala Asn
 115 120 125
 Asp Leu Thr His Ser Leu Ser Ser Tyr Leu Lys Glu Ile Cys Pro Lys
 130 135 140
 Trp Val Lys Leu Arg Lys Asn His Ser Glu Lys Lys Ser Val Leu Met
 145 150 155 160
 Leu Ile Ile Cys Ser Ser Ala Val Arg Ala Leu Glu Leu Ile Arg Ser
 165 170 175
 Met Thr Ala Phe Arg Gly Asp Gly Lys Val Ile Lys Leu Phe Ala Lys
 180 185 190
 His Ile Lys Val Gln Ala Gln Val Lys Leu Leu Glu Lys Arg Val Val
 195 200 205
 His Leu Gly Val Gly Thr Pro Gly Arg Ile Lys Glu Leu Val Lys Gln
 210 215 220
 Gly Gly Leu Asn Leu Ser Pro Leu Lys Phe Leu Val Phe Asp Trp Asn
 225 230 235 240
 Trp Arg Asp Gln Lys Leu Arg Arg Met Met Asp Ile Pro Glu Ile Arg
 245 250 255
 Lys Glu Val Phe Glu Leu Leu Glu Met Gly Val Leu Ser Leu Cys Lys
 260 265 270
 Ser Glu Ser Leu Lys Leu Gly Leu Phe
 275 280 281

<210> 1296
 <211> 213
 <212>Amino acid
 <213> Homo sapiens

<400> 1296
 Arg Pro Gly Thr Ala Ile Trp Val Val Glu Cys Glu His Gly Arg Pro
 1 5 10 15
 Ile Ala Glu Ser Glu Gly Gln Glu Gly Arg Gly His Ser Pro Pro Gly
 20 25 30
 Pro Cys Ser Val Ala Gly Phe Leu Arg Gly Arg Leu Gly Arg Asn Leu
 35 40 45

Glu Ile Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala
 50 55 60
 Leu Cys Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys
 65 70 75 80
 Ala Ala Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly
 85 90 95
 Thr Ala Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly
 100 105 110
 Phe Gly Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln
 115 120 125
 Ser Asn Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu
 130 135 140
 Gly Cys Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser
 145 150 155 160
 Leu Val Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe
 165 170 175
 Val Leu Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn
 180 185 190
 Val Ser Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly
 195 200 205
 Lys Ala Lys Arg His
 210 213

<210> 1297

<211> 353

<212>Amino acid

<213> Homo sapiens

<400> 1297

Glu Ser Pro Ala Pro Pro Ala Phe Arg Pro Ala Met Ala Ala Val Ala
 1 5 10 15
 Leu Met Pro Pro Pro Leu Leu Leu Leu Leu Leu Ala Ser Pro Pro
 20 25 30
 Ala Ala Ser Ala Pro Ser Ala Arg Asp Pro Phe Ala Pro Gln Leu Gly
 35 40 45
 Asp Thr Gln Asn Cys Gln Leu Arg Cys Arg Asp Arg Asp Leu Gly Pro
 50 55 60
 Gln Pro Ser Gln Ala Gly Leu Glu Gly Ala Ser Glu Ser Pro Tyr Asp
 65 70 75 80
 Arg Ala Val Leu Ile Ser Ala Cys Glu Arg Gly Cys Arg Leu Phe Ser
 85 90 95
 Ile Cys Arg Phe Val Ala Arg Ser Ser Lys Pro Asn Ala Thr Gln Thr
 100 105 110
 Glu Cys Glu Ala Ala Cys Val Glu Ala Tyr Val Lys Glu Ala Glu Gln
 115 120 125
 Gln Ala Cys Ser His Gly Cys Trp Ser Gln Pro Ala Glu Pro Glu Pro
 130 135 140
 Glu Gln Lys Arg Lys Val Leu Glu Ala Pro Ser Gly Ala Leu Ser Leu
 145 150 155 160
 Leu Asp Leu Phe Ser Thr Leu Cys Asn Asp Leu Val Asn Ser Ala Gln
 165 170 175
 Gly Phe Val Ser Ser Thr Trp Thr Tyr Tyr Leu Gln Thr Asp Asn Gly
 180 185 190
 Lys Val Val Val Phe Gln Thr Gln Pro Ile Val Glu Ser Leu Gly Phe
 195 200 205
 Gln Gly Gly Arg Leu Gln Arg Val Glu Val Thr Trp Arg Gly Ser His
 210 215 220
 Pro Glu Ala Leu Glu Val His Val Asp Pro Val Gly Pro Leu Asp Lys
 225 230 235 240

Val Arg Lys Ala Lys Ile Arg Val Lys Thr Ser Ser Lys Ala Lys Val
 245 250 255
 Glu Ser Glu Glu Pro Gln Asp Asn Asp Phe Leu Ser Cys Met Ser Arg
 260 265 270
 Arg Ser Gly Leu Pro Arg Trp Ile Leu Ala Cys Cys Leu Phe Leu Ser
 275 280 285
 Val Leu Val Met Leu Trp Leu Ser Cys Ser Thr Leu Val Thr Ala Pro
 290 295 300
 Gly Gln His Leu Lys Phe Gln Pro Leu Thr Leu Glu Gln His Lys Gly
 305 310 315 320
 Phe Met Met Glu Pro Asp Trp Pro Leu Tyr Pro Pro Pro Ser His Ala
 325 330 335
 Cys Glu Asp Ser Leu Pro Pro Tyr Lys Leu Lys Leu Asp Leu Thr Lys
 340 345 350
 Leu
 353

<210> 1298
 <211> 161
 <212> Amino acid
 <213> Homo sapiens

<400> 1298
 Phe Pro Glu Leu Gly Thr Ser Leu Ser Ala Met Arg Phe Leu Ala Ala
 1 5 10 15
 Thr Phe Leu Leu Leu Ala Leu Ser Thr Ala Ala Gln Ala Glu Pro Val
 20 25 30
 Gln Phe Lys Asp Cys Gly Ser Val Asp Gly Val Ile Lys Glu Val Asn
 35 40 45
 Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys Gly Gln Ser
 50 55 60
 Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser Lys Ser Ser
 65 70 75 80
 Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val Pro Phe Pro
 85 90 95
 Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys Pro Ile Gln
 100 105 110
 Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val Lys Ser Glu
 115 120 125
 Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln Asp Asp Lys
 130 135 140
 Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile Val Ser His
 145 150 155 160
 Leu
 161

<210> 1299
 <211> 128
 <212> Amino acid
 <213> Homo sapiens

<400> 1299
 Ala Pro Glu Thr Phe Arg Cys Val Trp Arg Leu Gln Gly Leu Thr Phe
 1 5 10 15

```

Ile Ala Phe Thr Glu Leu Gln Ala Lys Val Ile Asp Thr Gln Gln Lys
      20      25      30
Val Lys Leu Ala Asp Ile Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys
      35      40      45
His Ala His Leu Thr Asp Thr Glu Ile Met Thr Leu Val Asp Glu Thr
      50      55      60
Asn Met Tyr Glu Gly Val Gly Arg Met Phe Ile Leu Gln Ser Lys Glu
      65      70      75      80
Ala Ile His Ser Gln Leu Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys
      85      90      95
Ile Lys Glu Leu Glu Gln Lys Lys Ser Tyr Leu Glu Arg Ser Val Lys
      100      105      110
Glu Ala Glu Asp Asn Ile Arg Glu Met Leu Met Ala Arg Arg Ala Gln
      115      120      125      128

```

<210> 1300

<211> 265

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> X = any amino acid or stop code

<400> 1300

```

His Ser Leu Leu Leu Gly Thr Arg Val Arg Asp Ala Ser Ser Lys Ile
  1      5      10      15
Gln Gly Glu Tyr Thr Leu Thr Leu Arg Lys Gly Gly Asn Asn Lys Leu
      20      25      30
Ser Arg Val Phe His Arg Asp Gly His Tyr Gly Phe Ser Glu Pro Leu
      35      40      45
Thr Phe Cys Ser Val Val Asp Leu Ile Asn His Tyr Arg His Glu Ser
      50      55      60
Leu Ala Gln Tyr Asn Ala Lys Leu Asp Thr Arg Leu Leu Tyr Pro Val
      65      70      75      80
Ser Lys Tyr Gln Gln Val Arg Ala Gly Leu Gly Ala Arg Glu Gly Ser
      85      90      95
Thr Trp Leu Ala Pro Gly Leu Ser Phe Leu Gly Arg Pro Asp Gln Ala
      100      105      110
Met His Leu Pro Ser Phe Arg His Val Ser Pro Asp Gln Ile Val Lys
      115      120      125
Glu Asp Ser Val Glu Ala Val Gly Ala Gln Leu Lys Val Tyr His Gln
      130      135      140
Gln Tyr Gln Asp Lys Ser Arg Glu Tyr Asp Gln Leu Tyr Glu Glu Tyr
      145      150      155      160
Thr Arg Thr Ser Gln Glu Leu Gln Met Lys Arg Thr Ala Ile Glu Ala
      165      170      175
Phe Asn Glu Thr Ile Lys Ile Phe Glu Glu Gln Gly Gln Thr Gln Glu
      180      185      190
Lys Cys Ser Lys Glu Tyr Leu Glu Arg Phe Arg Arg Glu Gly Asn Gln
      195      200      205
Thr Lys Glu Met Gln Arg Ile Leu Leu Asn Ser Glu Arg Leu Lys Ser
      210      215      220
Arg Ile Ala Glu Ile His Glu Ser Pro His Arg Ser Trp Glu Gln Gln
      225      230      235      240
Leu Leu Val Pro Arg Ala Ser Asp Asn Lys Arg Asp Ile Asp Lys Pro

```

```
<210> 1301
<211> 490
<212> Amino acid
<213> Homo sapiens
```

804


```

385          390          395          400
Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu Pro Ser Leu
          405          410          415
Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His
          420          425          430
Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val Ala Pro Leu
          435          440          445
Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu Val Lys Pro
          450          455          460
Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys Lys Ser Gly
465          470          475          480
Asp Ile Trp Leu Asp Ala Tyr Leu His Gln
          485          490

```

<210> 1302
 <211> 110
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1302
Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe
 1          5          10          15
Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser
          20          25          30
Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala
          35          40          45
Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro
          50          55          60
Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp
          65          70          75          80
Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro
          85          90          95
Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
          100          105          110

```

<210> 1303
 <211> 138
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1303
Ile Gln Tyr Arg Ser Asp Leu Glu Leu His Ser Ile Thr Met Lys Lys
 1          5          10          15
Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val Leu Ile Gly
          20          25          30
Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser
          35          40          45
Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp Leu Lys Gln
          50          55          60
Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu
          65          70          75          80
Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala Asp Val Lys
          85          90          95
Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Lys Gln

```

```
<210> 1304
<211> 1000
<212> Amino acid
<213> Homo sapiens
```

806

370	375	380
Ser Asp Arg Ala Glu Asn Glu Asn Gly Ser Arg Cys Phe Ser Glu Asp		
385	390	395
Asn Asn Glu Thr Thr Met Leu Ile Gln Asp Asp Glu Asn Asn Ser Glu		400
	405	410
Met Ser Lys Asp Trp Gln Lys Glu Lys Met Cys Asn Lys Ile Asn Lys		415
	420	425
Val Asn Ser Glu Gly Glu Phe Asp Lys Asp Arg Asp Ser Ile Ser Glu		430
	435	440
Thr Val Asp Leu Asn Asn Gln Glu Thr Val Lys Val Gln Ile His Ser		445
	450	455
Arg Ala Ser Glu Tyr Ile Thr Asp Val His Ser Asn Asp Leu Ser Thr		460
465	470	475
Pro Gln Ile Leu Pro Ser Asn Glu Gly Val Asn Pro Arg Leu Ser Ala		480
	485	490
Ser Pro Pro Lys Ser Gly Asn Leu Trp Pro Gly Leu Ala Pro Pro His		495
	500	505
Lys Lys Ala Gln Ser Ala Ser Pro Lys Arg Lys Lys Gln His Lys Lys		510
	515	520
Tyr Arg Ser Val Ile Ser Asp Ile Phe Asp Gly Thr Ile Ile Ser Ser		525
	530	535
Val Gln Cys Leu Thr Cys Asp Arg Val Ser Val Thr Leu Glu Thr Phe		540
545	550	555
Gln Asp Leu Ser Leu Pro Ile Pro Gly Lys Glu Asp Leu Ala Lys Leu		560
	565	570
His Ser Ser Ser His Pro Thr Ser Ile Val Lys Ala Gly Ser Cys Gly		575
	580	585
Glu Ala Tyr Ala Pro Gln Gly Trp Ile Ala Phe Phe Met Glu Tyr Val		590
	595	600
Lys Arg Phe Val Val Ser Cys Val Pro Ser Trp Phe Trp Gly Pro Val		605
	610	615
Val Thr Leu Gln Asp Cys Leu Ala Ala Phe Phe Ala Arg Asp Glu Leu		620
625	630	635
Lys Gly Asp Asn Met Tyr Ser Cys Glu Lys Cys Lys Lys Leu Arg Asn		640
	645	650
Gly Val Lys Phe Cys Lys Val Gln Asn Phe Pro Glu Ile Leu Cys Ile		655
	660	665
His Leu Lys Arg Phe Arg His Glu Leu Met Phe Ser Thr Lys Ile Ser		670
	675	680
Thr His Val Ser Phe Pro Leu Glu Gly Leu Asp Leu Gln Pro Phe Leu		685
	690	695
Ala Lys Asp Ser Pro Ala Gln Ile Val Thr Tyr Asp Leu Leu Ser Val		700
705	710	715
Ile Cys His His Gly Thr Ala Ser Ser Gly His Tyr Ile Ala Tyr Cys		720
	725	730
Arg Asn Asn Leu Asn Asn Leu Trp Tyr Glu Phe Asp Asp Gln Ser Val		735
	740	745
Thr Glu Val Ser Glu Ser Thr Val Gln Asn Ala Glu Ala Tyr Val Leu		750
	755	760
Phe Tyr Arg Lys Ser Ser Glu Glu Ala Gln Lys Glu Arg Arg Arg Ile		765
	770	775
Ser Asn Leu Leu Asn Ile Met Glu Pro Ser Leu Leu Gln Phe Tyr Ile		780
785	790	795
Ser Arg Gln Trp Leu Asn Lys Phe Lys Thr Phe Ala Glu Pro Gly Pro		800
	805	810
Ile Ser Asn Asn Asp Phe Leu Cys Ile His Gly Gly Val Pro Pro Arg		815
	820	825
Lys Ala Gly Tyr Ile Glu Asp Leu Val Leu Met Leu Pro Gln Asn Ile		830
	835	840
Trp Asp Asn Leu Tyr Ser Arg Tyr Gly Gly Gly Pro Ala Val Asn His		845
	850	855
Leu Tyr Ile Cys His Thr Cys Gln Ile Glu Ala Glu Lys Ile Glu Lys		860
865	870	875
Arg Arg Lys Thr Glu Leu Glu Ile Phe Ile Arg Leu Asn Arg Ala Phe		880

```

      885      890      895
Gln Lys Glu Asp Ser Pro Ala Thr Phe Tyr Cys Ile Ser Met Gln Trp
      900      905      910
Phe Arg Glu Trp Glu Ser Phe Val Lys Gly Lys Asp Gly Asp Pro Pro
      915      920      925
Gly Pro Ile Asp Asn Thr Lys Ile Ala Val Thr Lys Cys Gly Asn Val
      930      935      940
Met Leu Arg Gln Gly Ala Asp Ser Gly Gln Ile Ser Glu Glu Thr Trp
      945      950      955
Asn Phe Leu Gln Ser Ile Tyr Gly Gly Gly Pro Glu Val Ile Leu Arg
      965      970      975
Pro Pro Val Val His Val Asp Pro Asp Ile Leu Gln Ala Glu Glu Lys
      980      985      990
Ile Glu Val Glu Thr Arg Ser Leu
      995      1000

```

<210> 1305
 <211> 141
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1305
Ser Pro Ser Ala Ala Gly Gly Leu Ala Trp Val Ser Leu Ala Leu Gly
  1      5      10      15
Ser Gly Ser Arg Gly Arg Asp His Ser Gly Ser Gly Val Gly Thr Ala
      20      25      30
Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
      35      40      45
Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
      50      55      60
Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
      65      70      75      80
Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
      85      90      95
Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
      100      105      110
Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
      115      120      125
Arg Leu Ile Lys His Glu Met Thr Lys Thr Ala Ser Ala
      130      135      140      141

```

<210> 1306
 <211> 386
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1306
Leu Gly Ser Arg Gln Ala Ala Gly Thr Met Arg Gly Gln Arg Ser Leu
  1      5      10      15
Leu Leu Gly Pro Ala Arg Leu Cys Leu Arg Leu Leu Leu Leu Gly
      20      25      30
Tyr Arg Arg Arg Cys Pro Pro Leu Leu Arg Gly Leu Val Gln Arg Trp
      35      40      45
Arg Tyr Gly Lys Val Cys Leu Arg Ser Leu Leu Tyr Asn Ser Phe Gly

```

50 55 60
 Gly Ser Asp Thr Ala Val Asp Ala Ala Phe Glu Pro Val Tyr Trp Leu
 65 70 75 80
 Val Asp Asn Val Ile Arg Trp Phe Gly Val Val Phe Val Val Leu Val
 85 90 95
 Ile Val Leu Thr Gly Ser Ile Val Ala Ile Ala Tyr Leu Cys Val Leu
 100 105 110
 Pro Leu Ile Leu Arg Thr Tyr Ser Val Pro Arg Leu Cys Trp His Phe
 115 120 125
 Phe Tyr Ser His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln
 130 135 140
 Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile
 145 150 155 160
 Ala Thr Val Ser Ile Cys Lys Lys Cys Ile Tyr Pro Lys Pro Ala Arg
 165 170 175
 Thr His His Cys Ser Ile Cys Asn Arg Cys Val Leu Lys Met Asp His
 180 185 190
 His Cys Pro Trp Leu Asn Asn Cys Val Gly His Tyr Asn His Arg Tyr
 195 200 205
 Phe Phe Ser Phe Cys Phe Phe Met Thr Leu Gly Cys Val Tyr Cys Ser
 210 215 220
 Tyr Gly Ser Trp Asp Leu Phe Arg Glu Ala Tyr Ala Ala Ile Glu Lys
 225 230 235 240
 Met Lys Gln Leu Asp Lys Asn Lys Leu Gln Ala Val Ala Asn Gln Thr
 245 250 255
 Tyr His Gln Thr Pro Pro Pro Thr Phe Ser Phe Arg Glu Arg Met Thr
 260 265 270
 His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val Ala Leu
 275 280 285
 Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser Arg Gly
 290 295 300
 Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg Arg Leu
 305 310 315 320
 Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly Cys Leu
 325 330 335
 Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His Trp Leu
 340 345 350
 Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn Gly Met
 355 360 365
 Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser Val Met
 370 375 380
 Ala Val
 385 386

<210> 1307

<211> 298

<212>Amino acid

<213> Homo sapiens

<400> 1307

Ala Thr Arg Arg Arg Ala Ala Glu Ala Gly Met Ala Ala Val Leu Gln
 1 5 10 15
 Arg Val Glu Arg Leu Ser Asn Arg Val Val Arg Val Leu Gly Cys Asn
 20 25 30
 Pro Gly Pro Met Thr Leu Gln Gly Thr Asn Thr Tyr Leu Val Gly Thr
 35 40 45
 Gly Pro Arg Arg Ile Leu Ile Asp Thr Gly Glu Pro Ala Ile Pro Glu
 50 55 60
 Tyr Ile Ser Cys Leu Lys Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile

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65          70          75          80
Gln Glu Ile Val Val Thr His Trp His Arg Asp His Ser Gly Gly Ile
      85          90          95
Gly Asp Ile Cys Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys
      100          105          110
Lys Leu Pro Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu
      115          120          125
Gln Gln Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly
      130          135          140
Ala Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met
      145          150          155
Ala Leu Leu Leu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys Ile
      165          170          175
Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr Met Asn
      180          185          190
Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile Tyr Pro Gly
      195          200          205
His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile Gln Gln Tyr Ile
      210          215          220
Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu Thr Leu Phe Arg Glu
      225          230          235
Asn Phe Glu Lys Ser Phe Thr Val Met Glu Leu Val Lys Ile Ile Tyr
      245          250          255
Lys Asn Thr Pro Glu Asn Leu His Glu Met Ala Lys His Asn Leu Leu
      260          265          270
Leu His Leu Lys Lys Leu Glu Lys Glu Gly Lys Ile Phe Ser Asn Thr
      275          280          285
Asp Pro Asp Lys Lys Trp Lys Ala His Leu
      290          295          298

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<210> 1308
 <211> 306
 <212> Amino acid
 <213> Homo sapiens

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<400> 1308
Glu Leu His Arg Ala Gly Gln Val Ala Gly Gly Ala Arg Arg Ser Arg
 1          5          10          15
Arg Glu Ser Met Glu Leu Glu Arg Ile Val Ser Ala Ala Leu Leu Ala
      20          25          30
Phe Val Gln Thr His Leu Pro Glu Ala Asp Leu Ser Gly Leu Asp Glu
      35          40          45
Val Ile Phe Ser Tyr Val Leu Gly Val Leu Glu Asp Leu Gly Pro Ser
      50          55          60
Gly Pro Ser Glu Glu Asn Phe Asp Met Glu Ala Phe Thr Glu Met Met
      65          70          75          80
Glu Ala Tyr Val Pro Gly Phe Ala His Ile Pro Arg Gly Thr Ile Gly
      85          90          95
Asp Met Met Gln Lys Leu Ser Gly Gln Leu Ser Asp Ala Arg Asn Lys
      100          105          110
Glu Asn Leu Gln Pro Gln Ser Ser Gly Val Gln Gly Gln Val Pro Ile
      115          120          125
Ser Pro Glu Pro Leu Gln Arg Pro Glu Met Leu Lys Glu Glu Thr Arg
      130          135          140
Ser Ser Ala Ala Ala Ala Ala Asp Thr Gln Asp Glu Ala Thr Gly Ala
      145          150          155          160
Glu Glu Glu Leu Leu Pro Gly Val Asp Val Leu Leu Glu Val Phe Pro
      165          170          175
Thr Cys Ser Val Glu Gln Ala Gln Trp Val Leu Ala Lys Ala Arg Gly

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      180      185      190
Asp Leu Glu Glu Ala Val Gln Met Leu Val Glu Gly Lys Glu Glu Gly
      195      200      205
Pro Ala Ala Trp Glu Gly Pro Asn Gln Asp Leu Pro Arg Arg Leu Arg
      210      215      220
Gly Pro Gln Lys Asp Glu Leu Lys Ser Phe Ile Leu Gln Lys Tyr Met
      225      230      235      240
Met Val Asp Ser Ala Glu Asp Gln Lys Ile His Arg Pro Met Ala Pro
      245      250      255
Lys Glu Ala Pro Lys Lys Leu Ile Arg Tyr Ile Asp Asn Gln Val Val
      260      265      270
Ser Thr Lys Gly Glu Arg Phe Lys Asp Val Arg Asn Pro Glu Ala Glu
      275      280      285
Glu Met Lys Ala Thr Tyr Ile Asn Leu Lys Pro Ala Arg Lys Tyr Arg
      290      295      300
Phe His
305 306

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<210> 1309
<211> 174
<212>Amino acid
<213> Homo sapiens

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      <400> 1309
Phe Ile Thr Gly Lys Gly Ile Val Ala Ile Leu Arg Cys Leu Gln Phe
      1      5      10      15
Asn Glu Thr Leu Thr Glu Leu Arg Phe His Asn Gln Arg His Met Leu
      20      25      30
Gly His His Ala Glu Met Glu Ile Ala Arg Leu Leu Lys Ala Asn Asn
      35      40      45
Thr Leu Leu Lys Met Gly Tyr His Phe Glu Leu Pro Gly Pro Arg Met
      50      55      60
Val Val Thr Asn Leu Leu Thr Arg Asn Gln Asp Lys Gln Arg Gln Lys
      65      70      75      80
Arg Gln Glu Glu Gln Lys Gln Gln Gln Leu Lys Glu Gln Lys Lys Leu
      85      90      95
Ile Ala Met Leu Glu Asn Gly Leu Gly Leu Pro Pro Gly Met Trp Glu
      100      105      110
Leu Leu Gly Gly Pro Lys Pro Asp Ser Arg Met Gln Glu Phe Phe Gln
      115      120      125
Pro Pro Pro Pro Arg Pro Pro Asn Pro Gln Asn Val Pro Phe Ser Gln
      130      135      140
Arg Ser Glu Met Met Lys Lys Pro Ser Gln Ala Pro Lys Tyr Arg Thr
      145      150      155      160
Asp Pro Asp Ser Phe Arg Val Val Lys Leu Lys Arg Ile Gln
      165      170      174

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<210> 1310
<211> 616
<212>Amino acid
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(616)
<223> X = any amino acid or stop code

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<400> 1310

Gly	Gly	Arg	Ala	Gly	Thr	Gln	Cys	Cys	Trp	Arg	Ala	Gly	Ala	Arg	Leu
1				5					10					15	
Arg	Gly	Ile	Ser	Pro	Ser	Pro	Ala	Leu	Pro	Glu	Ala	Pro	Gly	Leu	Cys
		20						25					30		
Arg	Val	Arg	Ala	Gly	Leu	Gly	Ala	Gly	Ala	Leu	Gly	Arg	Ser	Pro	Ala
		35					40					45			
Gly	Arg	Arg	Arg	Arg	Gly	Pro	Arg	Val	Ser	Ser	Ser	Pro	Ala	Pro	His
	50					55					60				
Pro	Arg	Arg	Val	Leu	Cys	Arg	Cys	Leu	Leu	Phe	Leu	Phe	Phe	Ser	Cys
	65				70					75				80	
His	Asp	Arg	Arg	Gly	Asp	Ser	Gln	Pro	Tyr	Gln	Ala	Leu	Lys	Tyr	Ser
			85					90						95	
Ser	Lys	Ser	His	Pro	Ser	Ser	Gly	Asp	His	Arg	His	Glu	Lys	Met	Arg
			100					105					110		
Asp	Ala	Gly	Asp	Pro	Ser	Pro	Pro	Asn	Lys	Met	Leu	Arg	Arg	Ser	Asp
		115					120					125			
Ser	Pro	Glu	Asn	Lys	Tyr	Ser	Asp	Ser	Thr	Gly	His	Ser	Lys	Ala	Lys
	130					135					140				
Asn	Val	His	Thr	His	Arg	Val	Arg	Glu	Arg	Asp	Gly	Gly	Thr	Ser	Tyr
	145				150					155				160	
Ser	Pro	Gln	Glu	Asn	Ser	His	Asn	His	Ser	Ala	Leu	His	Ser	Ser	Asn
			165					170					175		
Phe	Thr	Phe	Phe	Leu	Ile	Pro	Ser	Asn	Xaa	Pro	Gln	Gly	Lys	Thr	Phe
		180						185					190		
Arg	Ile	Ala	Pro	Tyr	Asp	Ser	Ala	Asp	Asp	Trp	Ser	Leu	Glu	His	Ile
	195					200						205			
Ser	Ser	Ser	Gly	Glu	Lys	Tyr	Tyr	Tyr	Asn	Cys	Arg	Thr	Glu	Val	Ser
	210				215						220				
Gln	Trp	Gly	Lys	Thr	Pro	Lys	Ser	Gly	Leu	Glu	Arg	Gly	Gln	Arg	Gln
	225				230					235				240	
Lys	Glu	Ala	Asn	Lys	Met	Ala	Val	Asn	Ser	Phe	Pro	Lys	Asp	Arg	Asp
			245					250					255		
Tyr	Arg	Arg	Glu	Val	Met	Gln	Ala	Thr	Ala	Thr	Ser	Gly	Phe	Ala	Ser
		260						265					270		
Gly	Lys	Ser	Thr	Ser	Gly	Asp	Lys	Pro	Val	Ser	His	Ser	Cys	Thr	Thr
	275					280					285				
Pro	Ser	Thr	Ser	Ser	Ala	Ser	Gly	Leu	Asn	Pro	Thr	Ser	Ala	Pro	Pro
	290					295					300				
Thr	Ser	Ala	Ser	Ala	Val	Pro	Val	Ser	Pro	Val	Pro	Gln	Ser	Pro	Ile
	305				310					315				320	
Pro	Pro	Leu	Leu	Gln	Asp	Pro	Asn	Leu	Leu	Arg	Gln	Leu	Leu	Pro	Ala
			325					330					335		
Leu	Glu	Ala	Thr	Leu	Gln	Leu	Asn	Asn	Ser	Asn	Val	Asp	Ile	Ser	Ile
		340					345					350			
Ile	Asn	Glu	Val	Leu	Thr	Gly	Asp	Val	Thr	Gln	Ala	Ser	Leu	Gln	Thr
	355					360					365				
Ile	Ile	His	Lys	Cys	Leu	Thr	Ala	Gly	Pro	Ser	Val	Phe	Lys	Ile	Thr
	370					375					380				
Ser	Leu	Ile	Ser	Gln	Ala	Gln	Leu	Ser	Thr	Gln	Ala	Gln	Ala	Ser	
	385				390				395					400	
Asn	Gln	Ser	Pro	Met	Ser	Leu	Thr	Ser	Asp	Ala	Ser	Ser	Pro	Arg	Ser
			405					410					415		
Tyr	Val	Ser	Pro	Arg	Asn	Lys	Ala	His	Leu	Lys	Leu	Asn	Thr	Val	Pro
			420				425					430			
Ile	Gln	Thr	Phe	Gly	Phe	Ser	Thr	Pro	Pro	Val	Ser	Ser	Gln	Pro	Lys
	435					440					445				
Val	Ser	Thr	Pro	Val	Val	Lys	Gln	Gly	Pro	Val	Ser	Gln	Ser	Ala	Thr
	450					455					460				
Gln	Gln	Pro	Val	Thr	Ala	Asp	Lys	Gln	Gln	Gly	His	Glu	Pro	Val	Ser
	465				470					475				480	


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Pro Arg Ser Leu Gln Arg Ser Ser Ser Gln Arg Ser Pro Ser Pro Gly
      485                      490                      495
Pro Asn His Thr Ser Asn Ser Ser Asn Ala Ser Asn Ala Thr Val Val
      500                      505                      510
Pro Gln Asn Ser Ser Ala Arg Ser Thr Cys Ser Leu Thr Pro Ala Leu
      515                      520                      525
Ala Ala His Phe Ser Glu Asn Leu Ile Lys His Val Gln Gly Trp Pro
      530                      535                      540
Ala Asp His Ala Glu Lys Gln Ala Ser Arg Leu Arg Glu Glu Ala His
      545                      550                      555                      560
Asn Met Gly Thr Ile His Met Ser Glu Ile Cys Thr Glu Leu Lys Asn
      565                      570                      575
Leu Arg Ser Leu Val Arg Val Cys Glu Ile Gln Ala Thr Leu Arg Glu
      580                      585                      590
Gln Arg Ile Leu Phe Leu Arg Gln Gln Ile Lys Glu Leu Glu Lys Leu
      595                      600                      605
Lys Asn Gln Asn Ser Phe Met Val
      610                      615 616

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<210> 1311
<211> 387
<212>Amino acid
<213> Homo sapiens

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<400> 1311
Val Ala Pro Glu Cys Arg Gly Ala Tyr Pro Phe Arg Ala Met Met Pro
  1      5      10      15
Gly Thr Ala Leu Lys Ala Val Leu Leu Ala Val Leu Leu Val Gly Leu
      20      25      30
Gln Thr Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val Cys Arg Gly
      35      40      45
Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His Asp Thr Ser
      50      55      60
Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg Arg Asp Gly
      65      70      75      80
Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys Leu Ile Glu
      85      90      95
Lys Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe Trp Ile Gly
      100     105     110
Leu Arg Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Ala Cys Gln Asp
      115     120     125
Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe Arg Asn Trp Tyr
      130     135     140
Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys Val Val Met Tyr His
      145     150     155     160
Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly Pro Tyr Met Phe Gln Trp
      165     170     175
Asn Asp Asp Arg Cys Asn Met Lys Asn Asn Phe Ile Cys Lys Tyr Ser
      180     185     190
Asp Glu Lys Pro Ala Val Pro Ser Arg Glu Ala Glu Gly Glu Glu Thr
      195     200     205
Glu Leu Thr Thr Pro Val Leu Pro Glu Glu Thr Gln Glu Glu Asp Ala
      210     215     220
Lys Lys Thr Phe Lys Glu Ser Arg Glu Ala Ala Leu Asn Leu Ala Tyr
      225     230     235     240
Ile Leu Ile Pro Ser Ile Pro Leu Leu Leu Leu Leu Val Val Thr Thr
      245     250     255
Val Val Cys Trp Val Trp Ile Cys Arg Lys Arg Lys Arg Glu Gln Pro
      260     265     270

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```

Asp Pro Ser Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln
      275      280      285
Gly Asn Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser
      290      295      300
Glu Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe
      305      310      315      320
Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp Tyr
      325      330      335
Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr Leu Val
      340      345      350
Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu Phe Ser Pro
      355      360      365
Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val Glu Asn Glu Ile
      370      375      380
Tyr Gly Tyr
      385      387

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<210> 1312
<211> 470
<212>Amino acid
<213> Homo sapiens

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```

<400> 1312
Thr Glu Trp Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu
  1      5      10      15
Pro Gly Ser Arg Gly Arg Gly Ala Ala Trp Arg Ile Leu Arg Cys
      20      25      30
Arg Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala
      35      40      45
Gln Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr
      50      55      60
Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
      65      70      75      80
Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
      85      90      95
Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
      100      105      110
Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
      115      120      125
His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
      130      135      140
Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
      145      150      155      160
Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
      165      170      175
Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
      180      185      190
Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
      195      200      205
Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
      210      215      220
Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
      225      230      235      240
Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
      245      250      255
Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
      260      265      270
Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
      275      280      285

```

Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 290 295 300
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 305 310 315 320
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 325 330 335
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 340 345 350
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 355 360 365
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 370 375 380
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 385 390 395 400
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 405 410 415
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 420 425 430
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 435 440 445
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 450 455 460
 Arg Asp Arg Asp Glu Leu
 465 470

<210> 1313
 <211> 262
 <212> Amino acid
 <213> Homo sapiens

<400> 1313
 Leu Thr Pro Ser Val Gly Pro Val Phe Pro Gly Arg Pro Thr Arg Pro
 1 5 10 15
 Leu Ala Ser Pro Phe Pro Val Pro Leu His Arg Cys Ser Ala Gly Ser
 20 25 30
 Gln Pro Pro Gly Pro Val Pro Glu Gly Leu Ile Arg Ile Tyr Ser Met
 35 40 45
 Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys Ala Lys
 50 55 60
 Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg Asn Lys Pro Glu
 65 70 75 80
 Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro Val Leu Glu Thr
 85 90 95
 Ser Gln Cys Gln Leu Ile Tyr Glu Ser Val Ile Ala Cys Glu Tyr Leu
 100 105 110
 Asp Asp Ala Tyr Pro Gly Arg Lys Leu Phe Pro Tyr Asp Pro Tyr Glu
 115 120 125
 Arg Ala Arg Gln Lys Met Leu Leu Glu Leu Phe Cys Lys Val Pro His
 130 135 140
 Leu Thr Lys Glu Cys Leu Val Ala Leu Arg Cys Gly Arg Glu Cys Thr
 145 150 155 160
 Asn Leu Lys Ala Ala Leu Arg Gln Glu Phe Ser Asn Leu Glu Glu Ile
 165 170 175
 Leu Glu Tyr Gln Asn Thr Thr Phe Phe Gly Gly Thr Cys Ile Ser Met
 180 185 190
 Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val Tyr Gly
 195 200 205
 Ile Leu Asp Cys Val Ser His Thr Pro Ala Leu Arg Leu Trp Ile Ser
 210 215 220

Ala Met Lys Trp Asp Pro Thr Val Cys Ala Leu Leu Met Asp Lys Ser
 225 230 235 240
 Ile Phe Gln Gly Phe Leu Asn Leu Tyr Phe Gln Asn Asn Pro Asn Ala
 245 250 255
 Phe Asp Phe Gly Leu Cys
 260 262

<210> 1314
 <211> 173
 <212> Amino acid
 <213> Homo sapiens

<400> 1314
 Asn Thr Ala Thr Asn Met Thr Gln Pro Asn Ala Gly Thr Arg Lys Tyr
 1 5 10 15
 Ser Val Pro Ala Ile Ser Val His Thr Ser Ser Ser Ser Phe Ala Tyr
 20 25 30
 Asp Arg Glu Phe Leu Arg Thr Leu Pro Gly Phe Leu Ile Val Ala Glu
 35 40 45
 Ile Val Leu Gly Leu Leu Val Trp Thr Leu Ile Ala Gly Thr Glu Tyr
 50 55 60
 Phe Arg Val Pro Ala Phe Gly Trp Val Met Phe Val Ala Val Phe Tyr
 65 70 75 80
 Trp Val Leu Thr Val Phe Phe Leu Ile Ile Tyr Ile Thr Met Thr Tyr
 85 90 95
 Thr Arg Ile Pro Gln Val Pro Trp Thr Thr Val Gly Leu Cys Phe Asn
 100 105 110
 Gly Ser Ala Phe Val Leu Tyr Leu Ser Ala Ala Val Val Asp Ala Ser
 115 120 125
 Ser Val Ser Pro Glu Arg Asp Ser His Asn Phe Asn Ser Trp Ala Ala
 130 135 140
 Ser Ser Phe Phe Ala Phe Leu Val Thr Ile Cys Tyr Ala Gly Asn Thr
 145 150 155 160
 Tyr Phe Ser Phe Ile Ala Trp Arg Ser Arg Thr Ile Gln
 165 170 173

<210> 1315
 <211> 259
 <212> Amino acid
 <213> Homo sapiens

<400> 1315
 Gly Leu Arg Asp Pro Phe Arg Arg Lys Arg Arg Leu Lys Pro Gln Val
 1 5 10 15
 Lys Met Ser Asn Tyr Val Asn Asp Met Trp Pro Gly Ser Pro Gln Glu
 20 25 30
 Lys Asp Ser Pro Ser Thr Ser Arg Ser Gly Gly Ser Ser Arg Leu Ser
 35 40 45
 Ser Arg Ser Arg Ser Arg Ser Phe Ser Arg Ser Ser Arg Ser His Ser
 50 55 60
 Arg Val Ser Ser Arg Phe Ser Ser Arg Ser Arg Arg Ser Lys Ser Arg
 65 70 75 80
 Ser Arg Ser Arg Arg Arg His Gln Arg Lys Tyr Arg Arg Tyr Ser Arg
 85 90 95

Ser Tyr Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Arg Tyr Arg Glu
 100 105 110
 Arg Arg Tyr Gly Phe Thr Arg Arg Tyr Tyr Arg Ser Pro Ser Arg Tyr
 115 120 125
 Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Gly Arg Ser Tyr Cys
 130 135 140
 Gly Arg Ala Tyr Ala Ile Ala Arg Gly Gln Arg Tyr Tyr Gly Phe Gly
 145 150 155 160
 Arg Thr Val Tyr Pro Glu Glu His Ser Arg Trp Arg Asp Arg Ser Arg
 165 170 175
 Thr Arg Ser Arg Ser Arg Thr Pro Phe Arg Leu Ser Glu Lys Asp Arg
 180 185 190
 Met Glu Leu Leu Glu Ile Ala Lys Thr Asn Ala Ala Lys Ala Leu Gly
 195 200 205
 Thr Thr Asn Ile Asp Leu Pro Ala Ser Leu Arg Thr Val Pro Ser Ala
 210 215 220
 Lys Glu Thr Ser Arg Gly Ile Gly Val Ser Ser Asn Gly Ala Lys Pro
 225 230 235 240
 Glu Val Ser Ile Leu Gly Leu Ser Glu Gln Asn Phe Gln Lys Ala Asn
 245 250 255
 Cys Gln Ile
 259

<210> 1316
 <211> 678
 <212> Amino acid
 <213> Homo sapiens

<400> 1316
 Ala Glu Gly Ser Thr Met Asp Leu Thr Lys Met Gly Met Ile Gln Leu
 1 5 10 15
 Gln Asn Pro Asn His Pro Thr Gly Leu Leu Cys Lys Ala Asn Gln Met
 20 25 30
 Arg Leu Ala Gly Thr Leu Cys Asp Val Val Ile Met Val Asp Ser Gln
 35 40 45
 Glu Phe His Ala His Arg Thr Val Leu Ala Cys Thr Ser Lys Met Phe
 50 55 60
 Glu Ile Leu Phe His Arg Asn Ser Gln His Tyr Thr Leu Asp Phe Leu
 65 70 75 80
 Ser Pro Lys Thr Phe Gln Gln Ile Leu Glu Tyr Ala Tyr Thr Ala Thr
 85 90 95
 Leu Gln Ala Lys Ala Glu Asp Leu Asp Asp Leu Leu Tyr Ala Ala Glu
 100 105 110
 Ile Leu Glu Ile Glu Tyr Leu Glu Glu Gln Cys Leu Lys Met Leu Glu
 115 120 125
 Thr Ile Gln Ala Ser Asp Asp Asn Asp Thr Glu Ala Thr Met Ala Asp
 130 135 140
 Gly Gly Ala Glu Glu Lys Lys Asp Arg Lys Ala Arg Tyr Leu Lys Asn
 145 150 155 160
 Ile Phe Ile Ser Lys His Ser Ser Glu Glu Ser Gly Tyr Ala Ser Val
 165 170 175
 Ala Gly Gln Ser Leu Pro Gly Pro Met Val Asp Gln Ser Pro Ser Val
 180 185 190
 Ser Thr Ser Phe Gly Leu Ser Ala Met Ser Pro Thr Lys Ala Ala Val
 195 200 205
 Asp Ser Leu Met Thr Ile Gly Gln Ser Leu Leu Gln Gly Thr Leu Gln
 210 215 220
 Pro Pro Ala Gly Pro Glu Glu Pro Thr Leu Ala Gly Gly Gly Arg His
 225 230 235 240

Pro Gly Val Ala Glu Val Lys Thr Glu Met Met Gln Val Asp Glu Val
 245 250 255
 Pro Ser Gln Asp Ser Pro Gly Ala Ala Glu Ser Ser Ile Ser Gly Gly
 260 265 270
 Met Gly Asp Lys Val Glu Glu Arg Gly Lys Glu Gly Pro Gly Thr Pro
 275 280 285
 Thr Arg Ser Ser Val Ile Thr Ser Ala Arg Glu Leu His Tyr Gly Arg
 290 295 300
 Glu Glu Ser Ala Glu Gln Val Pro Pro Pro Ala Glu Ala Gly Gln Ala
 305 310 315 320
 Pro Thr Gly Arg Pro Glu His Pro Ala Pro Pro Glu Lys His Leu
 325 330 335
 Gly Ile Tyr Ser Val Leu Pro Asn His Lys Ala Asp Ala Val Leu Ser
 340 345 350
 Met Pro Ser Ser Val Thr Ser Gly Leu His Val Gln Pro Ala Leu Ala
 355 360 365
 Val Ser Met Asp Phe Ser Thr Tyr Gly Gly Leu Leu Pro Gln Gly Phe
 370 375 380
 Ile Gln Arg Glu Leu Phe Ser Lys Leu Gly Glu Leu Ala Val Gly Met
 385 390 395 400
 Lys Ser Glu Ser Arg Thr Ile Gly Glu Gln Cys Ser Val Cys Gly Val
 405 410 415
 Glu Leu Pro Asp Asn Glu Ala Val Glu Gln His Arg Lys Leu His Ser
 420 425 430
 Gly Met Lys Thr Tyr Gly Cys Glu Leu Cys Gly Lys Arg Phe Leu Asp
 435 440 445
 Ser Leu Arg Leu Arg Met His Leu Leu Ala His Ser Ala Gly Ala Lys
 450 455 460
 Ala Phe Val Cys Asp Gln Cys Gly Ala Gln Phe Ser Lys Glu Asp Ala
 465 470 475 480
 Leu Glu Thr His Arg Gln Thr His Thr Gly Thr Asp Met Ala Val Phe
 485 490 495
 Cys Leu Leu Cys Gly Lys Arg Phe Gln Ala Gln Ser Ala Leu Gln Gln
 500 505 510
 His Met Glu Val His Ala Gly Val Arg Ser Tyr Ile Cys Ser Glu Cys
 515 520 525
 Asn Arg Thr Phe Pro Ser His Thr Ala Leu Lys Arg His Leu Arg Ser
 530 535 540
 His Thr Gly Asp His Pro Tyr Glu Cys Glu Phe Cys Gly Ser Cys Phe
 545 550 555 560
 Arg Asp Glu Ser Thr Leu Lys Ser His Lys Arg Ile His Thr Gly Glu
 565 570 575
 Lys Pro Tyr Glu Cys Asn Gly Cys Gly Lys Lys Phe Ser Leu Lys His
 580 585 590
 Gln Leu Glu Thr His Tyr Arg Val His Thr Gly Glu Lys Pro Phe Glu
 595 600 605
 Cys Lys Leu Cys His Gln Arg Ser Arg Asp Tyr Ser Ala Met Ile Lys
 610 615 620
 His Leu Arg Thr His Asn Gly Ala Ser Pro Tyr Gln Cys Thr Ile Cys
 625 630 635 640
 Thr Glu Tyr Cys Pro Ser Leu Ser Ser Met Gln Lys His Met Lys Gly
 645 650 655
 His Lys Pro Glu Glu Ile Pro Pro Asp Trp Arg Ile Glu Lys Thr Tyr
 660 665 670
 Leu Tyr Leu Cys Tyr Val
 675 678

<210> 1317

<211> 74

<212> Amino acid

<213> Homo sapiens

<400> 1317

```

Ile Trp Glu Ala Pro Thr Leu Ile Phe Thr Leu Ala Gly Gly Arg Ala
 1           5           10           15
Leu Gly His Pro Pro Met Gln Lys Gly Ser Gln Gly Cys Ala Leu Pro
           20           25           30
His Pro Leu Pro Gly Ala Ser Leu Pro Ala Gln Pro Gly Pro Ala Asp
           35           40           45
His Arg Gly Trp Glu Cys Arg Ile Gly Gly Glu Ala Ser Val Phe Thr
           50           55           60
His Leu Phe Cys Leu Pro His Ser Pro Thr
           65           70           74

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<210> 1318

<211> 351

<212> Amino acid

<213> Homo sapiens

<400> 1318

```

Ala Ser Gly Ser Pro Ala Pro Ser Ser Ser Ser Ala Met Ala Ala Ala
 1           5           10           15
Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu Gly Leu His Leu
           20           25           30
Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn Asp Pro Asp Arg
           35           40           45
Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr Asp Arg Tyr
           50           55           60
Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu Lys Cys Val Gly
           65           70           75           80
Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln
           85           90           95
Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp
           100          105          110
Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly
           115          120          125
Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu
           130          135          140
Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
           145          150          155          160
Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
           165          170          175
Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val
           180          185          190
Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser Asp
           195          200          205
Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro Pro Phe Ser His
           210          215          220
Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro Pro Gly Phe
           225          230          235          240
Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His Gly Ala Thr Ser
           245          250          255
Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr Glu Asn Ser Gly
           260          265          270
Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile Leu Gly Tyr Leu
           275          280          285
Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp Ser Trp Tyr Tyr
           290          295          300

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Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn Arg Ala Tyr Ser
 305 310 315 320
 Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys Ser Asn Ser Asp
 325 330 335
 Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr Arg Arg Arg
 340 345 350 351

<210> 1319
 <211> 310
 <212> Amino acid
 <213> Homo sapiens

<400> 1319
 Gly Arg Cys Gly Ala Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu
 1 5 10 15
 Leu Gly Leu Ser Ala Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met
 20 25 30
 Lys Val Val Glu Glu Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu
 35 40 45
 Pro Gln Ala Ser Arg Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser
 50 55 60
 Gly Pro Val His Leu Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val
 65 70 75 80
 Glu Ser Thr Tyr Lys Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln
 85 90 95
 His Glu Gln Thr Phe Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile
 100 105 110
 Trp His Glu Trp Glu Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met
 115 120 125
 Arg Asp Gly Asp Ala Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu
 130 135 140
 Leu Ala Cys Gly Lys Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser
 145 150 155 160
 Thr Cys Val Tyr Ala Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro
 165 170 175
 His Ala Leu Leu Val Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln
 180 185 190
 Trp Asp Gln Val Glu Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln
 195 200 205
 Gly His Glu Lys Leu Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu
 210 215 220
 Lys Thr Pro Glu Glu Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp
 225 230 235 240
 Ser Leu Gly Phe Glu Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu
 245 250 255
 Leu Ser Lys Glu Ile Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly
 260 265 270
 Ile Pro Tyr Thr Arg Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly
 275 280 285
 His Glu Thr Pro Arg Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro
 290 295 300
 Gly Leu Arg Gly Ser Leu
 305 310

<210> 1320
 <211> 313
 <212> Amino acid
 <213> Homo sapiens

<400> 1320

Asn	Ser	Phe	Trp	Ser	Val	Leu	Phe	Leu	Val	Gln	Glu	Glu	Thr	Glu	Val
1				5					10					15	
Ala	Arg	Cys	Asn	Ala	Gln	His	Arg	Leu	Arg	Gln	Ser	Arg	Asp	Ser	Lys
		20						25					30		
Pro	Asp	Pro	Ser	Phe	Arg	Ser	Gln	Pro	Ile	Asp	Ser	Ser	Ile	Ser	Phe
		35					40					45			
Ala	Gly	Ser	Asp	Ile	Gln	Pro	Leu	Phe	Ser	Phe	Ala	Ser	Val	Asp	Gly
	50					55				60					
Thr	Gln	Val	Gly	Glu	Ala	Glu	Glu	Trp	Ala	Gly	Pro	Trp	Ala	Glu	Ala
	65				70					75				80	
Thr	Leu	Leu	Pro	Gly	Pro	Gly	Asn	Arg	Trp	Pro	Pro	Arg	Ala	Gly	Leu
				85					90					95	
Ser	Gly	Asn	Trp	Leu	Glu	Glu	Asp	Gly	Asp	Trp	Pro	Ser	Leu	Pro	Glu
		100						105				110			
Val	Val	Gly	Phe	Val	Ser	Glu	Arg	Glu	Leu	Phe	Arg	Asp	Ala	Leu	Gly
		115					120					125			
Ala	Gly	Cys	Arg	Ile	Leu	Leu	Ile	Cys	Glu	Met	Gln	Leu	Thr	His	Gln
	130				135						140				
Leu	Asp	Leu	Phe	Pro	Glu	Cys	Arg	Val	Thr	Leu	Leu	Leu	Phe	Lys	Asp
	145				150					155					160
Val	Lys	Asn	Ala	Gly	Asp	Leu	Arg	Arg	Lys	Ala	Met	Glu	Gly	Thr	Ile
			165						170					175	
Asp	Gly	Ser	Leu	Ile	Asn	Pro	Thr	Val	Ile	Val	Asp	Pro	Phe	Gln	Ile
			180					185					190		
Leu	Val	Ala	Ala	Asn	Lys	Ala	Val	His	Leu	Tyr	Lys	Leu	Gly	Lys	Met
	195				200						205				
Lys	Thr	Arg	Thr	Leu	Ser	Thr	Glu	Ile	Ile	Phe	Asn	Leu	Ser	Pro	Asn
	210					215					220				
Asn	Asn	Ile	Ser	Glu	Ala	Leu	Lys	Lys	Phe	Gly	Ile	Ser	Ala	Asn	Asp
	225				230					235					240
Thr	Ser	Ile	Leu	Ile	Val	Tyr	Ile	Glu	Glu	Gly	Glu	Lys	Gln	Ile	Asn
			245					250						255	
Gln	Glu	Tyr	Leu	Ile	Ser	Gln	Val	Glu	Gly	His	Gln	Val	Ser	Leu	Lys
		260						265					270		
Asn	Leu	Pro	Glu	Ile	Met	Asn	Ile	Thr	Glu	Val	Lys	Lys	Ile	Tyr	Lys
		275					280					285			
Leu	Ser	Ser	Gln	Glu	Glu	Ser	Ile	Gly	Thr	Leu	Leu	Asp	Ala	Ile	Ile
	290					295					300				
Cys	Arg	Met	Ser	Thr	Lys	Asp	Val	Leu							
	305				310			313							

<210> 1321

<211> 891

<212> Amino acid

<213> Homo sapiens

<400> 1321

Gln	Arg	Ser	Trp	Ala	Gly	Pro	Gly	Ala	Gly	Pro	Glu	Ala	Gly	Thr	Arg
1				5					10					15	
Pro	Pro	Ala	Arg	Gly	Arg	Arg	Arg	Gln	Pro	Gly	Asn	Val	Asp	Pro	Arg
		20						25					30		
Arg	Arg	Ala	Pro	Gln	Leu	Arg	Ser	Gln	Met	Gln	Val	Ala	Met	Ala	Arg
		35					40						45		

Ala Thr Thr Ala Thr Gly Asn Arg Leu Trp Pro Gly Leu Leu Ile Met
 50 55 60
 Leu Gly Ser Leu Cys His Arg Gly Ser Pro Cys Gly Leu Ser Thr His
 65 70 75 80
 Ile Glu Ile Gly His Arg Ala Leu Glu Phe Leu Gln Leu His Asn Gly
 85 90 95
 Arg Val Asn Tyr Arg Glu Leu Leu Leu Glu His Gln Asp Ala Tyr Gln
 100 105 110
 Ala Gly Ile Val Phe Pro Asp Cys Phe Tyr Pro Ser Ile Cys Lys Gly
 115 120 125
 Gly Lys Phe His Asp Val Ser Glu Ser Thr His Trp Thr Pro Phe Leu
 130 135 140
 Asn Ala Ser Val His Tyr Ile Arg Glu Asn Tyr Pro Leu Pro Trp Glu
 145 150 155 160
 Lys Asp Thr Glu Lys Leu Val Ala Phe Leu Phe Gly Ile Thr Ser His
 165 170 175
 Met Ala Ala Asp Val Ser Trp His Ser Leu Gly Leu Glu Gln Gly Phe
 180 185 190
 Leu Arg Thr Met Gly Ala Ile Asp Phe His Gly Ser Tyr Ser Glu Ala
 195 200 205
 His Ser Ala Gly Asp Phe Gly Gly Asp Val Leu Ser Gln Phe Glu Phe
 210 215 220
 Asn Phe Asn Tyr Leu Ala Arg Arg Trp Tyr Val Pro Val Lys Asp Leu
 225 230 235 240
 Leu Gly Ile Tyr Glu Lys Leu Tyr Gly Arg Lys Val Ile Thr Glu Asn
 245 250 255
 Val Ile Val Asp Cys Ser His Ile Gln Phe Leu Glu Met Tyr Gly Glu
 260 265 270
 Met Leu Ala Val Ser Lys Leu Tyr Pro Thr Tyr Ser Thr Lys Ser Pro
 275 280 285
 Phe Leu Val Glu Gln Phe Gln Glu Tyr Phe Leu Gly Gly Leu Asp Asp
 290 295 300
 Met Ala Phe Trp Ser Thr Asn Ile Tyr His Leu Thr Ile Phe Met Leu
 305 310 315 320
 Glu Asn Gly Thr Ser Asp Cys Asn Leu Pro Glu Asn Pro Leu Phe Ile
 325 330 335
 Ala Cys Gly Gly Gln Gln Asn His Thr Gln Gly Ser Lys Met Gln Lys
 340 345 350
 Asn Asp Phe His Arg Asn Leu Thr Thr Ser Leu Thr Glu Ser Val Asp
 355 360 365
 Arg Asn Ile Asn Tyr Thr Glu Arg Gly Val Phe Phe Ser Val Asn Ser
 370 375 380
 Trp Thr Pro Asp Ser Met Ser Phe Ile Tyr Lys Ala Leu Glu Arg Asn
 385 390 395 400
 Ile Arg Thr Met Phe Ile Gly Gly Ser Gln Leu Ser Gln Lys His Val
 405 410 415
 Ser Ser Pro Leu Ala Ser Tyr Phe Leu Ser Phe Pro Tyr Ala Arg Leu
 420 425 430
 Gly Trp Ala Met Thr Ser Ala Asp Leu Asn Gln Asp Gly His Gly Asp
 435 440 445
 Leu Val Val Gly Ala Pro Gly Tyr Ser Arg Pro Gly His Ile His Ile
 450 455 460
 Gly Arg Val Tyr Leu Ile Tyr Gly Asn Asp Leu Gly Leu Pro Pro Val
 465 470 475 480
 Asp Leu Asp Leu Asp Lys Glu Ala His Arg Ile Leu Glu Gly Phe Gln
 485 490 495
 Pro Ser Gly Arg Phe Gly Ser Ala Leu Ala Val Leu Asp Phe Asn Val
 500 505 510
 Asp Gly Val Pro Asp Leu Ala Val Gly Ala Pro Ser Val Gly Ser Glu
 515 520 525
 Gln Leu Thr Tyr Lys Gly Ala Val Tyr Val Tyr Phe Gly Ser Lys Gln
 530 535 540
 Gly Gly Met Ser Ser Ser Pro Asn Ile Thr Ile Ser Cys Gln Asp Ile
 545 550 555 560

Tyr Cys Asn Leu Gly Trp Thr Leu Leu Ala Ala Asp Val Asn Gly Asp
 565 570 575
 Ser Glu Pro Asp Leu Val Ile Gly Ser Pro Phe Ala Pro Gly Gly Gly
 580 585 590
 Lys Gln Lys Gly Ile Val Ala Ala Phe Tyr Ser Gly Pro Ser Leu Ser
 595 600 605
 Asp Lys Glu Lys Leu Asn Val Glu Ala Ala Asn Trp Thr Val Arg Gly
 610 615 620
 Glu Glu Asp Phe Ser Trp Phe Gly Tyr Ser Leu His Gly Val Thr Val
 625 630 635 640
 Asp Asn Arg Thr Leu Leu Val Gly Ser Pro Thr Trp Lys Asn Ala
 645 650 655
 Ser Arg Leu Gly His Leu Leu His Ile Arg Asp Glu Lys Lys Ser Leu
 660 665 670
 Gly Arg Val Tyr Gly Tyr Phe Pro Pro Asn Gly Gln Ser Trp Phe Thr
 675 680 685
 Ile Ser Gly Asp Lys Ala Met Gly Lys Leu Gly Thr Ser Leu Ser Ser
 690 695 700
 Gly His Val Leu Met Asn Gly Thr Leu Lys Gln Val Leu Leu Val Gly
 705 710 715 720
 Ala Pro Thr Tyr Asp Asp Val Ser Lys Val Ala Phe Leu Thr Val Thr
 725 730 735
 Leu His Gln Gly Gly Ala Thr Arg Met Tyr Ala Leu Thr Ser Asp Ala
 740 745 750
 Gln Pro Leu Leu Ser Thr Phe Ser Gly Asp Arg Arg Phe Ser Arg
 755 760 765
 Phe Gly Gly Val Leu His Leu Ser Asp Leu Asp Asp Gly Leu Asp
 770 775 780
 Glu Ile Ile Met Ala Ala Pro Leu Arg Ile Ala Asp Val Thr Ser Gly
 785 790 795 800
 Leu Ile Gly Gly Glu Asp Gly Arg Val Tyr Val Tyr Asn Gly Lys Glu
 805 810 815
 Thr Thr Leu Gly Asp Met Thr Gly Lys Cys Lys Ser Trp Ile Thr Pro
 820 825 830
 Cys Pro Glu Glu Lys Ala Gln Tyr Val Leu Ile Ser Pro Glu Ala Ser
 835 840 845
 Ser Arg Phe Gly Ser Ser Leu Ile Thr Val Arg Ser Lys Ala Lys Asn
 850 855 860
 Gln Val Val Ile Ala Ala Gly Arg Ser Ser Leu Gly Ala Arg Leu Ser
 865 870 875 880
 Gly Ala Leu His Val Tyr Ser Leu Gly Ser Asp
 885 890 891

<210> 1322

<211> 119

<212>Amino acid

<213> Homo sapiens

<400> 1322

Ser Leu Arg Asn Ser Ala Arg Gly Leu Lys Met Ala Ala Ser Ala Ala
 1 5 10 15
 Arg Gly Ala Ala Ala Leu Arg Arg Ser Ile Asn Gln Pro Val Ala Phe
 20 25 30
 Val Arg Arg Ile Pro Trp Thr Ala Ala Ser Ser Gln Leu Lys Glu His
 35 40 45
 Phe Ala Gln Phe Gly His Val Arg Arg Cys Ile Leu Pro Phe Asp Lys
 50 55 60
 Glu Thr Gly Phe His Arg Gly Leu Gly Trp Val Gln Phe Ser Ser Glu
 65 70 75 80

Glu Gly Leu Arg Asn Ala Leu Gln Gln Glu Asn His Ile Ile Asp Gly
 85 90 95
 Val Lys Val Gln Val His Thr Arg Arg Pro Lys Leu Pro Gln Thr Ser
 100 105 110
 Asp Asp Glu Lys Lys Asp Phe
 115 119

<210> 1323
 <211> 257
 <212>Amino acid
 <213> Homo sapiens

<400> 1323
 Gly Ser Ser Asn Ile His Ser Ala Ser Thr His Gly Phe Cys His Trp
 1 5 10 15
 Phe Ser Ser Pro Ser Thr Leu Lys Arg Gln Lys Gln Ala Ile Arg Phe
 20 25 30
 Gln Lys Ile Arg Arg Gln Met Glu Ala Pro Gly Ala Pro Pro Arg Thr
 35 40 45
 Leu Thr Trp Glu Ala Met Glu Gln Ile Arg Tyr Leu His Glu Glu Phe
 50 55 60
 Pro Glu Ser Trp Ser Val Pro Arg Leu Ala Glu Gly Phe Asp Val Ser
 65 70 75 80
 Thr Asp Val Ile Arg Arg Val Leu Lys Ser Lys Phe Leu Pro Thr Leu
 85 90 95
 Glu Gln Lys Leu Lys Gln Asp Gln Lys Val Leu Lys Lys Ala Gly Leu
 100 105 110
 Ala His Ser Leu Gln His Leu Arg Gly Ser Gly Asn Thr Ser Lys Leu
 115 120 125
 Leu Pro Ala Gly His Ser Val Ser Gly Ser Leu Leu Met Pro Gly His
 130 135 140
 Glu Ala Ser Ser Lys Asp Pro Asn His Ser Thr Ala Leu Lys Val Ile
 145 150 155 160
 Glu Ser Asp Thr His Arg Thr Asn Thr Pro Arg Arg Arg Lys Gly Arg
 165 170 175
 Asn Lys Glu Ile Gln Asp Leu Glu Glu Ser Phe Val Pro Val Ala Ala
 180 185 190
 Pro Leu Gly His Pro Arg Glu Leu Gln Lys Tyr Ser Ser Asp Ser Glu
 195 200 205
 Ser Pro Arg Gly Thr Gly Ser Gly Ala Leu Pro Ser Gly Gln Lys Leu
 210 215 220
 Glu Glu Leu Lys Ala Glu Glu Pro Asp Asn Phe Ser Ser Lys Val Val
 225 230 235 240
 Gln Arg Gly Arg Glu Phe Phe Asp Ser Asn Gly Asn Phe Leu Tyr Arg
 245 250 255
 Ile
 257

<210> 1324
 <211> 273
 <212>Amino acid
 <213> Homo sapiens

<400> 1324

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
 1 5 10 15
 Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
 20 25 30
 Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
 35 40 45
 Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
 50 55 60
 His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
 65 70 75 80
 Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
 85 90 95
 Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val
 130 135 140
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205
 Gly Thr Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly
 245 250 255
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr
 260 265 270
 Ser
 273

<210> 1325

<211> 477

<212> Amino acid

<213> Homo sapiens

<400> 1325

Glu Met Val Gly Ala Met Trp Lys Val Ile Val Ser Leu Val Leu Leu
 1 5 10 15
 Met Pro Gly Pro Cys Asp Gly Leu Phe Arg Ser Leu Tyr Arg Ser Val
 20 25 30
 Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu Thr Pro
 35 40 45
 Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu Ser Leu Val
 50 55 60
 Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala Gly Phe Leu Thr
 65 70 75 80
 Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe Trp Phe Phe Pro Ala
 85 90 95
 Gln Ile Gln Pro Glu Asp Ala Pro Val Val Leu Trp Leu Gln Gly Gly
 100 105 110
 Pro Gly Gly Ser Ser Met Phe Gly Leu Phe Val Glu His Gly Pro Tyr
 115 120 125

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Val Val Thr Ser Asn Met Thr Leu Arg Asp Arg Asp Phe Pro Trp Thr
130      135      140
Thr Thr Leu Ser Met Leu Tyr Ile Asp Asn Pro Val Gly Thr Gly Phe
145      150      155      160
Ser Phe Thr Asp Asp Thr His Gly Tyr Ala Val Asn Glu Asp Asp Val
165      170      175
Ala Arg Asp Leu Tyr Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro
180      185      190
Glu Tyr Lys Asn Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly
195      200      205
Lys Tyr Val Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val
210      215      220
Arg Glu Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr
225      230      235      240
Ser Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln
245      250      255
Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln Cys
260      265      270
His Glu Cys Ile Glu His Ile Arg Lys Gln Asn Trp Phe Glu Ala Phe
275      280      285
Glu Ile Leu Asp Lys Leu Leu Asp Gly Asp Leu Thr Ser Asp Pro Ser
290      295      300
Tyr Phe Gln Asn Val Thr Gly Cys Ser Asn Tyr Tyr Asn Phe Leu Arg
305      310      315      320
Cys Thr Glu Pro Glu Asp Gln Leu Tyr Tyr Val Lys Phe Leu Ser Leu
325      330      335
Pro Glu Val Arg Gln Ala Ile His Val Gly Asn Gln Thr Phe Asn Asp
340      345      350
Gly Thr Ile Val Glu Lys Tyr Leu Arg Glu Asp Thr Val Gln Ser Val
355      360      365
Lys Pro Trp Leu Thr Glu Ile Met Asn Asn Tyr Lys Val Leu Ile Tyr
370      375      380
Asn Gly Gln Leu Asp Ile Ile Val Ala Ala Ala Leu Thr Glu Arg Ser
385      390      395      400
Leu Met Gly Met Asp Trp Lys Gly Ser Gln Glu Tyr Lys Lys Ala Glu
405      410      415
Lys Lys Val Trp Lys Ile Phe Lys Ser Asp Ser Glu Val Ala Gly Tyr
420      425      430
Ile Arg Gln Ala Gly Asp Phe His Gln Val Ile Ile Arg Gly Gly Gly
435      440      445
His Ile Leu Pro Tyr Asp Gln Pro Leu Arg Ala Phe Asp Met Ile Asn
450      455      460
Arg Phe Ile Tyr Gly Lys Gly Trp Asp Pro Tyr Val Gly
465      470      475      477

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<210> 1326

<211> 160

<212>Amino acid

<213> Homo sapiens

<400> 1326

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Arg Asp Glu Arg Ala Lys Val Pro Phe Arg Ser Thr Glu Gly Gly Arg
1      5      10      15
Arg Arg Arg Arg Arg Met Glu Ala Val Val Phe Val Phe Ser Leu Leu
20      25      30
Asp Cys Cys Ala Leu Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu
35      40      45
Ser Asp Leu Glu Cys Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys
50      55      60

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Leu Asn Lys Trp Val Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr
 65              70              75              80
Val Leu Leu Leu Met Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu
              85              90              95
Pro Val Ala Thr Trp Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly
              100             105             110
Asn Met Gly Val Phe Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu
              115             120             125
Lys Ser His Met Lys Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu
              130             135             140
Cys Phe Phe Met Tyr Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
145              150              155              160

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<210> 1327
<211> 131
<212>Amino acid
<213> Homo sapiens

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<400> 1327
Gln Ser Pro Gly His Gly Ala Pro Cys Gln Leu Ser Ser Ser His Ser
 1              5              10              15
Arg Ser Asn Arg Leu Leu Ser Pro Met Ala Arg Ala Thr Leu Ser Ala
              20              25              30
Ala Pro Ser Asn Pro Arg Leu Leu Arg Val Ala Leu Leu Leu Leu
              35              40              45
Leu Val Ala Ala Ser Arg Arg Ala Ala Gly Ala Pro Leu Ala Thr Glu
              50              55              60
Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln Gly Ile His Leu Lys Asn
              65              70              75              80
Ile Gln Ser Val Lys Val Lys Ser Pro Gly Pro His Cys Ala Gln Thr
              85              90              95
Glu Val Ile Ala Thr Leu Lys Asn Gly Gln Lys Ala Cys Leu Asn Pro
              100             105             110
Ala Ser Pro Met Val Lys Lys Ile Ile Glu Lys Met Leu Lys Asn Gly
              115             120             125
Lys Ser Asn
130 131

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<210> 1328
<211> 44
<212>Amino acid
<213> Homo sapiens

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```

<400> 1328
His Pro Leu Ser Leu Val Phe Leu Ala Leu Asn Thr Gly Lys Glu Lys
 1              5              10              15
Ser His Pro Gly Gly Gly Glu Arg Pro Gly Leu Ala Gly Gln Gly
              20              25              30
Glu Pro Asp His Pro Ala Gly Ala Arg Asp Gly Arg
              35              40              44

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<210> 1329
 <211> 525
 <212> Amino acid
 <213> Homo sapiens

<400> 1329
 Cys Thr Pro Val Ala Arg Ser Met Ala Thr Thr Ala Thr Cys Thr Arg
 1 5 10 15
 Phe Thr Asp Asp Tyr Gln Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe
 20 25 30
 Ser Val Val Arg Arg Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr Ala
 35 40 45
 Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys
 50 55 60
 Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn Ile
 65 70 75 80
 Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val
 85 90 95
 Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
 100 105 110
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile Leu
 115 120 125
 Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp Leu
 130 135 140
 Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala Val
 145 150 155 160
 Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln Gln
 165 170 175
 Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
 180 185 190
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys Gly
 195 200 205
 Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu
 210 215 220
 Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe
 225 230 235 240
 Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu Ile
 245 250 255
 Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp Gln
 260 265 270
 Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met
 275 280 285
 Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala Arg
 290 295 300
 Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg Asn
 305 310 315 320
 Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly Val
 325 330 335
 Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln Glu
 340 345 350
 Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val His
 355 360 365
 Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr Thr
 370 375 380
 Thr Glu Asp Glu Asp Leu Lys Val Arg Lys Gln Glu Ile Ile Lys Ile
 385 390 395 400
 Thr Glu Gln Leu Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr
 405 410 415
 Thr Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu
 420 425 430

Gly Asn Leu Val Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn
 435 440 445
 Leu Leu Ser Lys Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro
 450 455 460
 His Val His Val Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg
 465 470 475 480
 Leu Thr Gln Tyr Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser
 485 490 495
 Glu Glu Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val
 500 505 510
 His Tyr His Cys Ser Gly Ala Pro Ala Ala Pro Leu Gln
 515 520 525

<210> 1330
 <211> 205
 <212> Amino acid
 <213> Homo sapiens

<400> 1330
 Asn Arg Arg Thr Val Lys Met Leu Leu Glu Leu Ser Glu Glu His Lys
 1 5 10 15
 Glu His Leu Ala Phe Leu Pro Gln Val Asp Ser Ala Val Val Ala Glu
 20 25 30
 Phe Gly Arg Ile Ala Val Glu Phe Leu Arg Arg Gly Ala Asn Pro Lys
 35 40 45
 Ile Tyr Glu Gly Ala Ala Arg Lys Leu Asn Val Ser Ser Asp Thr Val
 50 55 60
 Gln His Gly Val Glu Gly Leu Thr Tyr Leu Leu Thr Glu Ser Ser Lys
 65 70 75 80
 Leu Met Ile Ser Glu Leu Asp Phe Gln Asp Ser Val Phe Val Leu Gly
 85 90 95
 Phe Ser Glu Glu Leu Asn Lys Leu Leu Leu Gln Leu Tyr Leu Asp Asn
 100 105 110
 Arg Lys Glu Ile Arg Thr Ile Leu Ser Glu Leu Ala Pro Ser Leu Pro
 115 120 125
 Ser Tyr His Asn Leu Glu Trp Arg Leu Asp Val Gln Leu Ala Ser Arg
 130 135 140
 Ser Leu Arg Gln Gln Ile Lys Pro Ala Val Thr Ile Lys Leu His Leu
 145 150 155 160
 Asn Gln Asn Gly Asp His Asn Thr Lys Val Leu Gln Thr Asp Pro Ala
 165 170 175
 Thr Leu Leu His Leu Val Gln Gln Leu Glu Gln Ala Leu Glu Glu Met
 180 185 190
 Lys Thr Asn His Cys Arg Arg Val Val Arg Asn Ile Lys
 195 200 205

<210> 1331
 <211> 78
 <212> Amino acid
 <213> Homo sapiens

<400> 1331
 Gly Thr Ser Ile Tyr Leu Ala His Arg Val Ala Arg Ala Trp Glu Leu
 1 5 10 15

Ala Gln Phe Ile His His Thr Ser Lys Lys Ala Asp Val Val Leu Ala
 20 25 30
 Cys Gly Asp Ser Ile Val His Pro Glu Asp Leu Ile Cys Cys Pro Leu
 35 40 45
 Thr Gly Arg Ser Cys Leu Cys Asp Val His Leu Leu Ser Ser Leu Leu
 50 55 60
 Ala Arg Leu Gly Arg Gly Tyr Ala Val Ser Leu Thr Asn Leu
 65 70 75 78

<210> 1332
 <211> 274
 <212> Amino acid
 <213> Homo sapiens

<400> 1332
 Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp
 1 5 10 15
 Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro
 20 25 30
 Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg
 35 40 45
 Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser
 50 55 60
 Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg
 65 70 75 80
 Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu
 85 90 95
 Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys
 100 105 110
 Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His
 115 120 125
 Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr
 130 135 140
 Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala
 145 150 155 160
 Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys
 165 170 175
 Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu
 180 185 190
 Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp
 195 200 205
 Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val
 210 215 220
 Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala
 225 230 235 240
 Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys
 245 250 255
 Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly
 260 265 270
 Val Asp
 274

<210> 1333
 <211> 157
 <212> Amino acid
 <213> Homo sapiens

<400> 1333

```

Ser Thr Asp Gly Asn Gly Ala Glu Arg Leu Phe Ala Glu Leu Arg Lys
 1           5           10           15
Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val
          20           25           30
Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg
          35           40           45
Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu
          50           55           60
Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe
 65           70           75           80
Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln
          85           90           95
Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser
          100          105          110
Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile
          115          120          125
Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly
          130          135          140
Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu
145           150           155           157

```

<210> 1334

<211> 193

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(193)

<223> X = any amino acid or stop code

<400> 1334

```

Arg Asn Met Lys Leu His Tyr Val Ala Val Leu Thr Leu Ala Ile Leu
 1           5           10           15
Met Phe Leu Thr Trp Leu Pro Glu Ser Leu Ser Cys Asn Lys Ala Leu
          20           25           30
Cys Ala Ser Asp Val Ser Lys Cys Leu Ile Gln Glu Leu Cys Gln Cys
          35           40           45
Arg Pro Gly Glu Gly Asn Cys Ser Cys Cys Lys Glu Cys Met Leu Cys
          50           55           60
Leu Gly Ala Leu Trp Asp Glu Cys Cys Asp Cys Val Gly Met Cys Asn
 65           70           75           80
Pro Arg Asn Tyr Ser Asp Thr Pro Pro Thr Ser Lys Ser Thr Val Glu
          85           90           95
Glu Leu His Glu Pro Ile Pro Ser Leu Phe Arg Ala Leu Thr Glu Gly
          100          105          110
Asp Thr Gln Leu Asn Trp Asn Ile Val Ser Phe Pro Val Ala Glu Glu
          115          120          125
Leu Ser His His Glu Asn Leu Val Ser Phe Leu Glu Thr Val Asn Gln
          130          135          140
Pro His His Gln Asn Val Ser Val Pro Ser Asn Asn Val His Ala Pro
145           150          155          160
Tyr Ser Ser Asp Lys Glu Xaa Leu Pro Thr Val Asp Phe Phe His Ser
          165          170          175
Ala Pro Ser Cys Gly Leu Ser Met Xaa Ser Ile Ile Phe Phe Glu Glu

```

180 185 190
 Thr
 193

<210> 1335
 <211> 179
 <212>Amino acid
 <213> Homo sapiens

<400> 1335
 Val Gly Gly Val Pro Thr Trp Leu Glu Gly Cys Gly Ser Gly Asn Pro
 1 5 10 15
 Ser Pro Arg Ser Gly Gly Gly Pro Gly Ala Arg Leu Thr Leu Pro Ala
 20 25 30
 Leu Gln Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val
 35 40 45
 Cys Leu His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro
 50 55 60
 Lys Glu Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg
 65 70 75 80
 Ser Phe Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu
 85 90 95
 Ala Phe Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr
 100 105 110
 Gly Ile Lys Val Val Met Asn Thr Asp Leu Gly Val Gly Pro Ile Arg
 115 120 125
 Asp Val Leu His His Ile Tyr Ser Ala Leu Tyr Val Glu Leu Val Val
 130 135 140
 Lys Asn Pro Leu Cys Pro Leu Gly Gln Thr Val Gln Ser Glu Leu Phe
 145 150 155 160
 Arg Ser Arg Leu Asp Ser Tyr Val Arg Ser Leu Pro Phe Phe Ser Ala
 165 170 175
 Arg Ala Gly
 179

<210> 1336
 <211> 236
 <212>Amino acid
 <213> Homo sapiens

<400> 1336
 Pro Gly Leu Ser Gln Glu Pro Ser Gly Ser Met Glu Thr Val Val Ile
 1 5 10 15
 Val Ala Ile Gly Val Leu Ala Thr Ile Phe Leu Ala Ser Phe Ala Ala
 20 25 30
 Leu Val Leu Val Cys Arg Gln Arg Tyr Cys Arg Pro Arg Asp Leu Leu
 35 40 45
 Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp Leu Ile Gly Ala Met Glu
 50 55 60
 Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu Asp Asp Val Val Ile Thr
 65 70 75 80
 Asn Pro His Ile Glu Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp
 85 90 95
 Ala Ser Gly Leu Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His

```

      100      105      110
Thr Leu Thr Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys
      115      120      125
Met Lys Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg
      130      135      140
Ile Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu
145      150      155      160
Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Ser Val
      165      170      175
Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr Gly Gly
      180      185      190
Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu His Leu Glu
      195      200      205
Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp Lys Gly Leu Pro
      210      215      220
Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala Ile
225      230      235 236

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<210> 1337
 <211> 161
 <212>Amino acid
 <213> Homo sapiens

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      <400> 1337
Val Gly Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly
  1      5      10      15
His Trp Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr
      20      25      30
Ala Trp Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala
      35      40      45
Gln Arg Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu
      50      55      60
Ala Thr Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg
      65      70      75      80
Val Ser Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu
      85      90      95
Ser Leu Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr
      100      105      110
Arg Glu Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser
      115      120      125
Ser Gln Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro
      130      135      140
Ala Asp Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly
145      150      155      160
Tyr
161

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<210> 1338
 <211> 200
 <212>Amino acid
 <213> Homo sapiens

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      <400> 1338
Pro Ala Ser Arg Pro Leu Leu Gly Pro Asp Thr Gly Ser Val Ala Asn

```

```

      1           5           10           15
Ile Phe Lys Gly Leu Val Ile Leu Pro Glu Met Ser Leu Val Ile Arg
      20           25           30
Asn Leu Gln Arg Val Ile Pro Ile Arg Arg Ala Pro Leu Arg Ser Lys
      35           40           45
Ile Glu Ile Val Arg Arg Ile Leu Gly Val Gln Lys Phe Asp Leu Gly
      50           55           60
Ile Ile Cys Val Asp Asn Lys Asn Ile Gln His Ile Asn Arg Ile Tyr
      65           70           75           80
Arg Asp Arg Asn Val Pro Thr Asp Val Leu Ser Phe Pro Phe His Glu
      85           90           95
His Leu Lys Ala Gly Glu Phe Pro Gln Pro Asp Phe Pro Asp Asp Tyr
      100          105          110
Asn Leu Gly Asp Ile Phe Leu Gly Val Glu Tyr Ile Phe His Gln Cys
      115          120          125
Lys Glu Asn Glu Asp Tyr Asn Asp Val Leu Thr Val Thr Ala Thr His
      130          135          140
Gly Leu Cys His Leu Leu Gly Phe Thr His Gly Thr Glu Ala Glu Trp
145          150          155          160
Gln Gln Met Phe Gln Lys Glu Lys Ala Val Leu Asp Glu Leu Gly Arg
      165          170          175
Arg Thr Gly Thr Arg Leu Gln Pro Leu Thr Pro Gly Pro Leu Pro Glu
      180          185          190
Gly Ala Glu Gly Arg Val Pro Phe
      195          200

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<210> 1339

<211> 267

<212>Amino acid

<213> Homo sapiens

<400> 1339

```

Leu Arg Asn Ala Leu Asp Val Leu His Arg Glu Val Pro Arg Val Leu
      1           5           10           15
Val Asn Leu Val Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe
      20           25           30
Leu Gly Asn Pro Asp Lys Cys Pro Val Gln Gln Ala Met Leu Glu Pro
      35           40           45
Leu Gly Ser Lys Thr Glu Thr Leu Asp Leu Arg Ala Glu Met Pro Ile
      50           55           60
Thr Cys Pro Thr Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser
      65           70           75           80
Asn Tyr Thr Tyr Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp
      85           90           95
Phe Leu Cys Thr Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val
      100          105          110
His Gln Leu Arg Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp
      115          120          125
Ser Leu Thr Thr Ala Val Gly Ala Arg Pro Asn Asn Ser Ser Asp Leu
      130          135          140
Pro Thr Ser Trp Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn
145          150          155          160
Leu Glu Thr His Thr Thr Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro
      165          170          175
Tyr Leu Leu Gly Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu
      180          185          190
Asn Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala
      195          200          205
Trp Asp Leu Val Glu Arg Met Lys Asn Ser Pro Asp Ile Asn Leu Glu

```

210	215	220
Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Gly Asn Asp Leu Cys		
225	230	235
His Tyr Cys Glu Asn Pro Glu Ala His Leu Ala Thr Glu Tyr Val Gln		240
	245	250
His Ile Gln Gln Ala Leu Asp Ile Leu Ser Glu		255
260	265	267

<210> 1340

<211> 286

<212>Amino acid

<213> Homo sapiens

<400> 1340														
Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro														
1	5	10	15											
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala														
	20	25	30											
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser														
	35	40	45											
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln														
	50	55	60											
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val														
	65	70	75											
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu														
	85	90	95											
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val														
	100	105	110											
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp														
	115	120	125											
Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val														
	130	135	140											
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala														
	145	150	155											
Leu Met Met Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly														
	165	170	175											
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp														
	180	185	190											
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln														
	195	200	205											
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp														
	210	215	220											
Gln Lys Asn Tyr Val Glu Leu Asn Arg His Leu Ser Cys Thr Val														
	225	230	235											
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys														
	245	250	255											
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln														
	260	265	270											
Glu Glu Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg														
	275	280	285	286										

<210> 1341

<211> 233

<212>Amino acid

<213> Homo sapiens

<400> 1341
 Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly
 1 5 10 15
 Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu
 20 25 30
 Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile
 35 40 45
 Gln Arg Glu Glu Glu Lys Val Lys Arg Ser Val Lys Asp Ala Ala Lys
 50 55 60
 Lys Gly Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg
 65 70 75 80
 Ser Arg Lys Ala Val Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn
 85 90 95
 Ser Val Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala
 100 105 110
 Gly Ser Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu
 115 120 125
 Val Lys Ile Pro Glu Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu
 130 135 140
 Met Met Lys Ala Gly Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu
 145 150 155 160
 Ser Met Asp Asp Gln Glu Glu Met Glu Glu Glu Ala Glu Met Glu Ile
 165 170 175
 Asp Arg Ile Leu Phe Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro
 180 185 190
 Ser Lys Val Thr Asp Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met
 195 200 205
 Ala Ala Ser Glu Asp Glu Glu Glu Glu Glu Glu Ala Leu Glu Ala Met
 210 215 220
 Gln Ser Arg Leu Ala Thr Leu Arg Ser
 225 230 233

<210> 1342

<211> 150

<212> Amino acid

<213> Homo sapiens

<400> 1342
 Arg Trp Asn Ser Ile Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val
 1 5 10 15
 Met Ala Gly Val Ile Pro Ile Gln Gly Ile Leu Asn Leu Asn Lys
 20 25 30
 Met Val Lys Gln Val Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro
 35 40 45
 Tyr Gly Cys His Cys Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala
 50 55 60
 Thr Asp Trp Cys Cys Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys
 65 70 75 80
 Thr Gln Gly Cys Gly Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser
 85 90 95
 Gln Gly Asn Ile His Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln
 100 105 110
 Leu Cys Ala Cys Asp Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu
 115 120 125
 Asp Thr Tyr Gln Lys Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg
 130 135 140
 Gly Gln Thr Pro Gly Cys

145

150

<210> 1343
 <211> 127
 <212>Amino acid
 <213> Homo sapiens

<400> 1343
 Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe
 1 5 10 15
 Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr
 20 25 30
 Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly
 35 40 45
 Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser
 50 55 60
 Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala
 65 70 75 80
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln
 85 90 95
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro
 100 105 110
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe
 115 120 125 127

<210> 1344
 <211> 126
 <212>Amino acid
 <213> Homo sapiens

<400> 1344
 Leu Pro Leu Thr Leu Leu Leu Ala Ala Pro Phe Ala His Leu Leu Leu
 1 5 10 15
 Pro Pro Gly His Asp Gln Ser Pro Cys Trp His Pro Gly Pro Ala Leu
 20 25 30
 Ser Pro Gly Thr Leu Gly Pro Leu Ser Trp Ala Met Ala Asn Ser Gly
 35 40 45
 Leu Gln Leu Leu Gly Tyr Phe Leu Ala Leu Gly Gly Trp Val Gly Ile
 50 55 60
 Ile Ala Ser Thr Ala Leu Pro Gln Trp Lys Gln Ser Ser Tyr Ala Gly
 65 70 75 80
 Asp Ala Ser Ile Gln Leu Arg Ser Lys Val Phe Val Leu Glu Ser Glu
 85 90 95
 Trp Gly Gly Asp Ser Leu Gly Leu Pro Arg Asp Cys Gly Trp Ser Cys
 100 105 110
 Leu Leu His Ser Ala Val Arg Ser Glu Lys Gly Phe Trp Ser
 115 120 125 126

<210> 1345
 <211> 328
 <212>Amino acid
 <213> Homo sapiens

<400> 1345

Asp	Pro	Arg	Val	Arg	Pro	Pro	Leu	Leu	Gln	Pro	Pro	Pro	Pro	Leu	Leu
1				5					10					15	
Pro	Arg	Leu	Val	Ile	Leu	Lys	Met	Ala	Pro	Leu	Asp	Leu	Asp	Lys	Tyr
		20					25					30			
Val	Glu	Ile	Ala	Arg	Leu	Cys	Lys	Tyr	Leu	Pro	Glu	Asn	Asp	Leu	Lys
	35						40					45			
Arg	Leu	Cys	Asp	Tyr	Val	Cys	Asp	Leu	Leu	Leu	Glu	Glu	Ser	Asn	Val
	50					55					60				
Gln	Pro	Val	Ser	Thr	Pro	Val	Thr	Val	Cys	Gly	Asp	Ile	His	Gly	Gln
	65				70					75				80	
Phe	Tyr	Asp	Leu	Cys	Glu	Leu	Phe	Arg	Thr	Gly	Gly	Gln	Val	Pro	Asp
			85					90						95	
Thr	Asn	Tyr	Ile	Phe	Met	Gly	Asp	Phe	Val	Asp	Arg	Gly	Tyr	Tyr	Ser
			100					105					110		
Leu	Glu	Thr	Phe	Thr	Tyr	Leu	Leu	Ala	Leu	Lys	Ala	Lys	Trp	Pro	Asp
		115				120						125			
Arg	Ile	Thr	Leu	Leu	Arg	Gly	Asn	His	Glu	Ser	Arg	Gln	Ile	Thr	Gln
	130					135						140			
Val	Tyr	Gly	Phe	Tyr	Asp	Glu	Cys	Gln	Thr	Lys	Tyr	Gly	Asn	Ala	Asn
	145				150					155				160	
Ala	Trp	Arg	Tyr	Cys	Thr	Lys	Val	Phe	Asp	Met	Leu	Thr	Val	Ala	Ala
			165					170						175	
Leu	Ile	Asp	Glu	Gln	Ile	Leu	Cys	Val	His	Gly	Gly	Leu	Ser	Pro	Asp
		180				185						190			
Ile	Lys	Thr	Leu	Asp	Gln	Ile	Arg	Thr	Ile	Glu	Arg	Asn	Gln	Glu	Ile
		195				200						205			
Pro	His	Lys	Gly	Ala	Phe	Cys	Asp	Leu	Val	Trp	Ser	Asp	Pro	Glu	Asp
	210					215					220				
Val	Asp	Thr	Trp	Ala	Ile	Ser	Pro	Arg	Gly	Ala	Gly	Trp	Leu	Phe	Gly
	225				230					235				240	
Ala	Lys	Val	Thr	Asn	Glu	Phe	Val	His	Ile	Asn	Asn	Leu	Lys	Leu	Ile
			245							250				255	
Cys	Arg	Ala	His	Gln	Leu	Val	His	Glu	Gly	Tyr	Lys	Phe	Met	Phe	Asp
		260						265					270		
Glu	Lys	Leu	Val	Thr	Val	Trp	Ser	Ala	Pro	Asn	Tyr	Cys	Tyr	Arg	Cys
		275				280						285			
Gly	Asn	Ile	Ala	Ser	Ile	Met	Val	Phe	Lys	Asp	Val	Asn	Thr	Arg	Glu
	290					295					300				
Pro	Lys	Leu	Phe	Arg	Ala	Val	Pro	Asp	Ser	Glu	Arg	Val	Ile	Pro	Pro
	305				310					315				320	
Arg	Thr	Thr	Thr	Pro	Tyr	Phe	Leu								
			325			328									

<210> 1346

<211> 253

<212> Amino acid

<213> Homo sapiens

<400> 1346

Ser	Phe	Ala	Gly	Ala	Ala	Ala	Arg	Pro	Ser	Thr	Pro	Pro	Ala	Ser	Gly
1				5					10					15	
Arg	Gly	Ala	Ala	Pro	Gly	Arg	Pro	Gly	Pro	Ser	Pro	Met	Asp	Leu	Arg
		20					25					30			
Ala	Gly	Asp	Ser	Trp	Gly	Met	Leu	Ala	Cys	Leu	Cys	Thr	Val	Leu	Trp

```

      35      40      45
His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro
  50      55      60
Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His
  65      70      75      80
Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro
      85      90      95
Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu
  100      105      110
Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg Ser Leu Asn Asp Lys
  115      120      125
Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr
  130      135      140
Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser
  145      150      155      160
Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala
      165      170      175
Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly
  180      185      190
Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His Ser Asp Phe Leu Gln
  195      200      205
Lys Met Asp Asp Phe Trp Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp
  210      215      220
Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys Lys Met Gln Pro Pro
  225      230      235      240
Ala Ala Ala Val Thr Leu His Leu Gly Ala His Gly Phe
      245      250      253

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<210> 1347

<211> 195

<212> Amino acid

<213> Homo sapiens

<400> 1347

```

      1      5      10      15
Ile Lys Ile Ser Leu Lys Lys Arg Ser Met Ser Gly Ile Ser Gly Cys
  1      5      10      15
Pro Phe Phe Leu Trp Gly Leu Leu Ala Leu Leu Gly Leu Ala Leu Val
      20      25      30
Ile Ser Leu Ile Phe Asn Ile Ser His Tyr Val Glu Lys Gln Arg Gln
      35      40      45
Asp Lys Met Tyr Ser Tyr Ser Ser Asp His Thr Arg Val Asp Glu Tyr
  50      55      60
Tyr Ile Glu Asp Thr Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser
  65      70      75      80
Glu Pro Met Asp Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu
      85      90      95
Lys Ser Val Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr
  100      105      110
Asn Glu Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly
  115      120      125
Lys Arg Arg Lys Pro Arg Lys Gln Asn Thr His Phe Ser Asp Lys Asp
  130      135      140
Gly Asp Glu Gln Leu His Ala Ile Asp Ala Ser Val Ser Lys Thr Thr
  145      150      155      160
Leu Val Asp Ser Phe Ser Pro Glu Ser Gln Ala Val Glu Glu Asn Ile
      165      170      175
His Asp Asp Pro Ile Arg Leu Phe Gly Leu Ile Arg Ala Lys Arg Glu
  180      185      190
Pro Ile Asn

```

195

<210> 1348
 <211> 268
 <212>Amino acid
 <213> Homo sapiens

<400> 1348
 Val Glu Phe His Pro Gln Arg Ala Arg Ala Gly Ala Arg Ala Pro Ser
 1 5 10 15
 Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala
 20 25 30
 Leu Leu Phe Pro Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser
 35 40 45
 Lys Glu Tyr Arg Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu
 50 55 60
 Met Gln Asp Thr Ser Arg Leu Leu Asp Pro Tyr Ile Arg Ile Gln Gly
 65 70 75 80
 Leu Asp Val Pro Lys Leu Arg Glu His Cys Arg Glu Arg Pro Gly Ala
 85 90 95
 Phe Pro Ser Glu Thr Leu Arg Gly Leu Gly Arg Arg Cys Phe Leu
 100 105 110
 Gln Thr Leu Asn Ala Thr Leu Gly Cys Val Leu His Arg Leu Ala Asp
 115 120 125
 Leu Glu Gln Arg Leu Pro Lys Ala Gln Asp Leu Glu Arg Ser Gly Leu
 130 135 140
 Asn Ile Glu Asp Leu Glu Lys Leu Gln Met Ala Arg Pro Asn Ile Leu
 145 150 155 160
 Gly Leu Arg Asn Asn Ile Tyr Cys Met Ala Gln Leu Leu Asp Asn Ser
 165 170 175
 Asp Thr Ala Glu Pro Thr Lys Ala Gly Arg Gly Ala Ser Gln Pro Pro
 180 185 190
 Thr Pro Thr Pro Ala Ser Asp Ala Phe Gln Arg Lys Leu Glu Gly Cys
 195 200 205
 Arg Phe Leu His Gly Tyr His Arg Phe Met His Ser Val Gly Arg Val
 210 215 220
 Phe Ser Lys Trp Gly Glu Ser Pro Asn Arg Ser Arg Arg His Ser Pro
 225 230 235 240
 His Gln Ala Leu Arg Lys Gly Val Arg Arg Thr Arg Pro Ser Arg Lys
 245 250 255
 Gly Lys Arg Leu Met Thr Arg Gly Gln Leu Pro Arg
 260 265 268

<210> 1349
 <211> 138
 <212>Amino acid
 <213> Homo sapiens

<400> 1349
 Asp Phe Pro Gly Arg Arg Phe Arg Leu Val Trp Leu Leu Val Leu Arg
 1 5 10 15
 Leu Pro Trp Arg Val Pro Gly Gln Leu Asp Pro Thr Thr Gly Arg Arg
 20 25 30
 Phe Ser Glu His Lys Leu Cys Ala Asp Asp Glu Cys Ser Met Leu Met

```

      35      40      45
Tyr Arg Gly Glu Ala Leu Glu Asp Phe Thr Gly Pro Asp Cys Arg Phe
  50      55      60
Val Asn Phe Lys Lys Gly Asp Pro Val Tyr Val Tyr Tyr Lys Leu Ala
  65      70      75      80
Arg Gly Trp Pro Glu Val Trp Ala Gly Ser Val Gly Arg Thr Phe Gly
      85      90      95
Tyr Phe Pro Lys Asp Leu Ile Gln Val Val His Glu Tyr Thr Lys Glu
      100      105      110
Glu Leu Gln Val Pro Thr Asn Glu Thr Asp Phe Val Cys Phe Asp Gly
      115      120      125
Gly Arg Asp Asp Phe His Asn Tyr Asn Val
  130      135      138

```

<210> 1350
 <211> 236
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1350
Ser Pro Leu Gly Lys Glu Gly Gln Glu Glu Val Arg Val Lys Ile Lys
  1      5      10      15
Asp Leu Asn Glu His Ile Val Cys Cys Leu Cys Ala Gly Tyr Phe Val
      20      25      30
Asp Ala Thr Thr Ile Thr Glu Cys Leu His Thr Phe Cys Lys Ser Cys
      35      40      45
Ile Val Lys Tyr Leu Gln Thr Ser Lys Tyr Cys Pro Met Cys Asn Ile
      50      55      60
Lys Ile His Glu Thr Gln Pro Leu Leu Asn Leu Lys Leu Asp Arg Val
      65      70      75      80
Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Asp Ser Glu
      85      90      95
Glu Lys Arg Ile Arg Glu Phe Tyr Gln Ser Arg Gly Leu Asp Arg Val
      100      105      110
Thr Gln Pro Thr Gly Glu Glu Pro Ala Leu Ser Asn Leu Gly Leu Pro
      115      120      125
Phe Ser Ser Phe Asp His Ser Lys Ala His Tyr Tyr Arg Tyr Asp Glu
      130      135      140
Gln Leu Asn Leu Cys Leu Glu Arg Leu Ser Ser Gly Lys Asp Lys Asn
      145      150      155      160
Lys Ser Val Leu Gln Asn Lys Tyr Val Arg Cys Ser Val Arg Ala Glu
      165      170      175
Val Arg His Leu Arg Arg Val Leu Cys His Arg Leu Met Leu Asn Pro
      180      185      190
Gln His Val Gln Leu Leu Phe Asp Asn Glu Val Leu Pro Asp His Met
      195      200      205
Thr Met Lys Gln Ile Trp Leu Ser Arg Trp Phe Gly Lys Pro Ser Pro
      210      215      220
Leu Leu Leu Gln Tyr Ser Val Lys Glu Lys Arg Arg
      225      230      235      236

```

<210> 1351
 <211> 178
 <212> Amino acid
 <213> Homo sapiens

<400> 1351

```

Leu Trp Trp Tyr Ser Ala His Ala Ala Val Asp Ala Met Met Asp Val
 1          5          10          15
Phe Gly Val Gly Phe Pro Ser Lys Val Pro Trp Lys Lys Met Ser Ala
          20          25          30
Glu Glu Leu Glu Asn Gln Tyr Cys Pro Ser Arg Trp Val Val Arg Leu
          35          40          45
Gly Ala Glu Glu Ala Leu Arg Thr Tyr Ser Gln Ile Gly Ile Glu Ala
          50          55          60
Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His Val Pro Tyr
          65          70          75          80
Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro Asp Glu Ser
          85          90          95
Ser Glu Ala Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His
          100          105          110
Val Pro Tyr Gly Asp Gly Glu Gly Lys Val Asp Ile Tyr Phe Pro
          115          120          125
Asp Glu Ser Ser Glu Ala Leu Pro Phe Phe Leu Phe Phe His Gly Gly
          130          135          140
Tyr Trp Gln Ser Gly Arg His Pro Gly Pro His Gly Arg Pro Gly Asp
          145          150          155          160
Pro Gln Arg Cys Val Cys Pro Glu Ala Val Ser Lys Gln Gln Ala Phe
          165          170          175
Ser Trp
          178

```

<210> 1352

<211> 284

<212>Amino acid

<213> Homo sapiens

<400> 1352

```

Gly Val Arg Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro
 1          5          10          15
Pro Glu Leu Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn
          20          25          30
Ser Arg Met Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu
          35          40          45
Leu Leu Tyr Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly
          50          55          60
Cys Gly Thr Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr
          65          70          75          80
Trp Val Gly Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp
          85          90          95
Arg Glu Ile Glu Gly Asp Leu Leu Leu Gly Asp Met Gly Gln Gly Ile
          100          105          110
Pro Phe Lys Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val
          115          120          125
Gln Trp Leu Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg
          130          135          140
Leu Tyr Cys Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser
          145          150          155          160
Arg Ala Val Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu
          165          170          175
Ile Thr Thr Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val
          180          185          190
Asp Tyr Pro Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe

```

```
<210> 1353
<211> 363
<212> Amino acid
<213> Homo sapiens
```

843

				325						330					335
Arg	Ser	Val	Ala	Gly	Gly	Gly	Thr	Val	Ser	Val	Ser	Val	Arg	Ser	Arg
			340					345					350		
Arg	Pro	Asp	Gly	Gln	Cys	Thr	Val	Thr	Glu	Val					
		355					360			363					

<210> 1354
 <211> 368
 <212> Amino acid
 <213> Homo sapiens

<400> 1354

Gly	Ala	Thr	Pro	Leu	Gly	Ser	Val	Gly	Gly	Arg	Thr	Gly	Lys	Met	Asp
1				5				10					15		
Ala	Ala	Thr	Leu	Thr	Tyr	Asp	Thr	Leu	Arg	Phe	Ala	Glu	Phe	Glu	Asp
			20				25					30			
Phe	Pro	Glu	Thr	Ser	Glu	Pro	Val	Trp	Ile	Leu	Gly	Arg	Lys	Tyr	Ser
		35				40					45				
Ile	Phe	Thr	Glu	Lys	Asp	Glu	Ile	Leu	Ser	Asp	Val	Ala	Ser	Arg	Leu
	50				55					60					
Trp	Phe	Thr	Tyr	Arg	Lys	Asn	Phe	Pro	Ala	Ile	Gly	Gly	Thr	Gly	Pro
65				70					75						80
Thr	Ser	Asp	Thr	Gly	Trp	Gly	Cys	Met	Leu	Arg	Cys	Gly	Gln	Met	Ile
			85				90						95		
Phe	Ala	Gln	Ala	Leu	Val	Cys	Arg	His	Leu	Gly	Arg	Asp	Trp	Arg	Trp
			100				105					110			
Thr	Gln	Arg	Lys	Arg	Gln	Pro	Asp	Ser	Tyr	Phe	Ser	Val	Leu	Asn	Ala
	115					120						125			
Phe	Ile	Asp	Arg	Lys	Asp	Ser	Tyr	Tyr	Ser	Ile	His	Gln	Ile	Ala	Gln
	130				135					140					
Met	Gly	Val	Gly	Glu	Gly	Lys	Ser	Ile	Gly	Gln	Trp	Tyr	Gly	Pro	Asn
145				150					155						160
Thr	Val	Ala	Gln	Val	Leu	Lys	Lys	Leu	Ala	Val	Phe	Asp	Thr	Trp	Ser
			165				170						175		
Ser	Leu	Ala	Val	His	Ile	Ala	Met	Asp	Asn	Thr	Val	Val	Met	Glu	Glu
	180						185					190			
Ile	Arg	Arg	Leu	Cys	Arg	Thr	Ser	Val	Pro	Cys	Ala	Gly	Ala	Thr	Ala
	195				200						205				
Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys	Asn	Gly	Phe	Pro	Ala	Gly	Ala
	210				215					220					
Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp	Arg	Pro	Leu	Val	Leu	Leu	Ile
225				230					235						240
Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile	Asn	Glu	Ala	Tyr	Val	Glu	Thr
			245				250						255		
Leu	Lys	His	Cys	Phe	Met	Met	Pro	Gln	Ser	Leu	Gly	Val	Ile	Gly	Gly
		260				265						270			
Lys	Pro	Asn	Ser	Ala	His	Tyr	Phe	Ile	Gly	Tyr	Val	Gly	Glu	Glu	Leu
	275					280					285				
Ile	Tyr	Leu	Asp	Pro	His	Thr	Thr	Gln	Pro	Ala	Val	Glu	Pro	Thr	Asp
	290				295						300				
Gly	Cys	Phe	Ile	Pro	Asp	Glu	Ser	Phe	His	Cys	Gln	His	Pro	Pro	Cys
305				310					315						320
Arg	Met	Ser	Ile	Ala	Glu	Leu	Asp	Pro	Ser	Ile	Ala	Val	Val	Arg	Gly
			325				330					335			
Gly	His	Leu	Ser	Thr	Gln	Ala	Phe	Gly	Ala	Glu	Cys	Cys	Leu	Gly	Met
		340				345						350			
Thr	Arg	Lys	Thr	Phe	Gly	Phe	Leu	Arg	Phe	Phe	Phe	Ser	Met	Leu	Gly
	355					360						365			368

<210> 1355
 <211> 117
 <212>Amino acid
 <213> Homo sapiens

<400> 1355
 Pro Thr Thr Ser Asn Arg Ala Ile Thr Leu Thr Ala Trp Pro Lys Ile
 1 5 10 15
 Pro Phe Leu Gly Ile Cys Glu Ala Lys Asn Pro Arg Ser Glu Asn Met
 20 25 30
 Arg Leu Ala Thr Ile Leu Glu Val Ala Cys His His Leu Gly Ser Gly
 35 40 45
 Pro Pro Pro Ser Trp Glu Leu Trp Glu Gln Gly Pro Pro Gly Asn Ser
 50 55 60
 Ser Arg Tyr Ile Glu Phe Leu Asn Lys His Thr Tyr Ile Lys Gly Thr
 65 70 75 80
 Leu Arg Val Tyr Thr Lys Lys Phe Cys Met Leu Val Ile Lys Ser Phe
 85 90 95
 Glu Ser Lys Ser Cys Val Cys Val Tyr Asp Phe Asp Ser Lys Ser Ser
 100 105 110
 Val Asn Val Thr Val
 115 117

<210> 1356
 <211> 126
 <212>Amino acid
 <213> Homo sapiens

<400> 1356
 Pro Arg Val Arg Phe Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala
 1 5 10 15
 Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile
 20 25 30
 Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys
 35 40 45
 Leu Glu Leu Asn Leu Tyr Lys Ile Ala Lys Leu Gln Thr Val Asn Tyr
 50 55 60
 Ile Ala Leu Val Val Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile
 65 70 75 80
 Cys Tyr Leu Leu Ile Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu
 85 90 95
 Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile
 100 105 110
 Thr Leu Ile Ile Phe Phe Leu Cys Phe Leu Pro Tyr His Thr
 115 120 125 126

<210> 1357
 <211> 222
 <212>Amino acid
 <213> Homo sapiens

<400> 1357

```

Gly Arg His Trp Leu Gly Ser Ala Gln Leu Thr Asp Gly Gly Ser Ala
 1           5           10           15
Arg Lys Pro Lys Met Ala Val Pro Ala Ala Leu Ile Leu Arg Glu Ser
          20           25           30
Pro Ser Met Lys Lys Ala Val Ser Leu Ile Asn Ala Ile Asp Thr Gly
          35           40           45
Arg Phe Pro Arg Leu Leu Thr Arg Ile Leu Gln Lys Leu His Leu Lys
          50           55           60
Ala Glu Ser Ser Phe Ser Glu Glu Glu Glu Lys Leu Gln Ala Ala
          65           70           75           80
Phe Ser Leu Glu Lys Gln Asp Leu His Leu Val Leu Glu Thr Ile Ser
          85           90           95
Phe Ile Leu Glu Gln Ala Val Tyr His Asn Val Lys Pro Ala Ala Leu
          100          105          110
Gln Gln Gln Leu Glu Asn Ile His Leu Arg Gln Asp Lys Ala Glu Ala
          115          120          125
Phe Val Asn Thr Trp Ser Ser Met Gly Gln Glu Thr Val Glu Lys Phe
          130          135          140
Arg Gln Arg Ile Leu Ala Pro Cys Lys Leu Glu Thr Val Gly Trp Gln
          145          150          155          160
Leu Asn Leu Gln Met Ala His Ser Ala Gln Ala Lys Leu Lys Ser Pro
          165          170          175
Gln Ala Val Leu Gln Leu Gly Val Asn Asn Glu Asp Ser Lys Ser Leu
          180          185          190
Glu Lys Val Leu Val Glu Phe Ser His Lys Glu Leu Phe Asp Phe Tyr
          195          200          205
Asn Lys Leu Glu Thr Ile Gln Ala Gln Leu Asp Ser Leu Thr
          210          215          220          222

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<210> 1358

<211> 116

<212>Amino acid

<213> Homo sapiens

<400> 1358

```

Glu Ala Ser Ser Ala Lys Thr Lys Arg Lys Glu Glu Lys Gly Pro Lys
 1           5           10           15
Ala Lys Met Lys Leu Met Val Leu Val Phe Thr Ile Gly Leu Thr Leu
          20           25           30
Leu Leu Gly Val Gln Ala Met Pro Ala Asn Arg Leu Ser Cys Tyr Arg
          35           40           45
Lys Ile Leu Lys Asp His Asn Cys His Asn Leu Pro Glu Gly Val Ala
          50           55           60
Asp Leu Thr Gln Ile Asp Val Asn Val Gln Asp His Phe Trp Asp Gly
          65           70           75           80
Lys Gly Cys Glu Met Ile Cys Tyr Cys Asn Phe Ser Glu Leu Leu Cys
          85           90           95
Cys Pro Lys Asp Val Phe Phe Gly Pro Lys Ile Ser Phe Val Ile Pro
          100          105          110
Cys Asn Asn Gln
          115 116

```

<210> 1359

<211> 466
 <212> Amino acid
 <213> Homo sapiens

<400> 1359
 Lys Met Ala Glu Ala Val Phe His Ala Pro Lys Arg Lys Arg Arg Val
 1 5 10 15
 Tyr Glu Thr Tyr Glu Ser Pro Leu Pro Ile Pro Phe Gly Gln Asp His
 20 25 30
 Gly Pro Leu Lys Glu Phe Lys Ile Phe Arg Ala Glu Met Ile Asn Asn
 35 40 45
 Asn Val Ile Val Arg Asn Ala Glu Asp Ile Glu Gln Leu Tyr Gly Lys
 50 55 60
 Gly Tyr Phe Gly Lys Gly Ile Leu Ser Arg Ser Arg Pro Ser Phe Thr
 65 70 75 80
 Ile Ser Asp Pro Lys Leu Val Ala Lys Trp Lys Asp Met Lys Thr Asn
 85 90 95
 Met Pro Ile Ile Thr Ser Lys Arg Tyr Gln His Ser Val Glu Trp Ala
 100 105 110
 Ala Glu Leu Met Arg Arg Gln Gly Gln Asp Glu Ser Thr Val Arg Arg
 115 120 125
 Ile Leu Lys Asp Tyr Thr Lys Pro Leu Glu His Pro Pro Val Lys Arg
 130 135 140
 Asn Glu Glu Ala Gln Val His Asp Lys Leu Asn Ser Gly Met Val Ser
 145 150 155 160
 Asn Met Glu Gly Thr Ala Gly Gly Glu Arg Pro Ser Val Val Asn Gly
 165 170 175
 Asp Ser Gly Lys Ser Gly Gly Val Gly Asp Pro Arg Glu Pro Leu Gly
 180 185 190
 Cys Leu Gln Glu Gly Ser Gly Cys His Pro Thr Thr Glu Ser Phe Glu
 195 200 205
 Lys Ser Val Arg Glu Asp Ala Ser Pro Leu Pro His Val Cys Cys Cys
 210 215 220
 Lys Gln Asp Ala Leu Ile Leu Gln Arg Gly Leu His His Glu Asp Gly
 225 230 235 240
 Ser Gln His Ile Gly Leu Leu His Pro Gly Asp Arg Gly Pro Asp His
 245 250 255
 Glu Tyr Val Leu Val Glu Glu Ala Glu Cys Ala Met Ser Glu Arg Glu
 260 265 270
 Ala Ala Pro Asn Glu Glu Leu Val Gln Arg Asn Arg Leu Ile Cys Arg
 275 280 285
 Arg Asn Pro Tyr Arg Ile Phe Glu Tyr Leu Gln Leu Ser Leu Glu Glu
 290 295 300
 Ala Phe Phe Leu Val Tyr Ala Leu Gly Cys Leu Ser Ile Tyr Tyr Glu
 305 310 315 320
 Lys Glu Pro Leu Thr Ile Val Lys Leu Trp Lys Ala Phe Thr Val Val
 325 330 335
 Gln Pro Thr Phe Arg Thr Thr Tyr Met Ala Tyr His Tyr Phe Arg Ser
 340 345 350
 Lys Gly Trp Val Pro Lys Val Gly Leu Lys Tyr Gly Thr Asp Leu Leu
 355 360 365
 Leu Tyr Arg Lys Gly Pro Pro Phe Tyr His Ala Ser Tyr Ser Val Ile
 370 375 380
 Ile Glu Leu Val Asp Asp His Phe Glu Gly Ser Leu Arg Arg Pro Leu
 385 390 395 400
 Ser Trp Lys Ser Leu Ala Ala Leu Ser Arg Val Ser Val Asn Val Ser
 405 410 415
 Lys Glu Leu Met Leu Cys Tyr Leu Ile Lys Pro Ser Thr Met Thr Asp
 420 425 430
 Lys Glu Met Glu Ser Pro Glu Cys Met Lys Arg Ile Lys Val Gln Glu

435 440 445
 Val Ile Leu Ser Arg Trp Val Ser Ser Arg Glu Arg Ser Asp Gln Asp
 450 455 460
 Asp Leu
 465 466

<210> 1360
 <211> 419
 <212> Amino acid
 <213> Homo sapiens

<400> 1360
 Arg Asp Ile Trp Thr Met Asn Leu Gln Arg Tyr Trp Gly Glu Ile Pro
 1 5 10 15
 Ile Ser Ser Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg
 20 25 30
 Glu Phe Arg Leu Val Glu Val His Asp Pro Pro Leu His Gln Pro Ser
 35 40 45
 Ala Asn Lys Pro Lys Pro Pro Thr Met Leu Asp Ile Pro Ser Glu Pro
 50 55 60
 Cys Ser Leu Thr Ile His Thr Ile Gln Leu Ile Gln His Asn Arg Arg
 65 70 75 80
 Leu Arg Asn Leu Ile Ala Thr Ala Gln Ala Gln Asn Gln Gln Gln Thr
 85 90 95
 Glu Gly Val Lys Thr Glu Glu Ser Glu Pro Leu Pro Ser Cys Pro Gly
 100 105 110
 Ser Pro Pro Leu Pro Asp Asp Leu Leu Pro Leu Asp Cys Lys Asn Pro
 115 120 125
 Asn Ala Pro Phe Gln Ile Arg His Ser Asp Pro Glu Ser Asp Phe Tyr
 130 135 140
 Arg Gly Lys Gly Glu Pro Val Thr Glu Leu Ser Trp His Ser Cys Arg
 145 150 155 160
 Gln Leu Leu Tyr Gln Ala Val Ala Thr Ile Leu Ala His Ala Gly Phe
 165 170 175
 Asp Cys Ala Asn Glu Ser Val Leu Glu Thr Leu Thr Asp Val Ala His
 180 185 190
 Glu Tyr Cys Leu Lys Phe Thr Lys Leu Leu Arg Phe Ala Val Asp Arg
 195 200 205
 Glu Ala Arg Leu Gly Gln Thr Pro Phe Pro Asp Val Met Glu Gln Val
 210 215 220
 Phe His Glu Val Gly Ile Gly Ser Val Leu Ser Leu Gln Lys Phe Trp
 225 230 235 240
 Gln His Arg Ile Lys Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys
 245 250 255
 Gln Leu Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr
 260 265 270
 Glu Asp Ala Lys Pro Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile
 275 280 285
 Thr Phe Pro Val Ser Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp
 290 295 300
 Gln Ser Leu Pro Met Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro
 305 310 315 320
 Ser Asn Leu Glu Val Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val
 325 330 335
 Asn Ala Ser Pro Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln
 340 345 350
 Glu Ser Glu Glu Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp
 355 360 365
 Val Phe Glu Glu Pro Met Ser Gly Met Ser Glu Ala Gly Ile Pro Gln

```

      370      375      380
Ser Pro Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser
385      390      395      400
Leu Met Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met
      405      410      415
Arg Lys Ile
      419

```

```

<210> 1361
<211> 220
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1361
Arg Glu Gln Ile Leu Phe Ile Glu Ile Arg Asp Thr Ala Lys Gly Gly
 1      5      10      15
Glu Thr Glu Gln Pro Pro Ser Leu Ser Pro Leu His Gly Gly Arg Met
      20      25      30
Pro Glu Met Gly Glu Gly Ile Gln Ser Leu Ala Arg Glu Thr Gln Ser
      35      40      45
His Arg Gly Arg Arg Gln Gly Trp Asp Ala Thr Trp Val Thr Arg Cys
      50      55      60
Arg Glu Ser Leu Asn Arg Gly Gly Ala Gly Ala Gly Lys Arg Ala Gly
      65      70      75      80
Ala Leu Ala His His Val Phe Leu Ala Leu Ile Glu Pro Asn Leu Ala
      85      90      95
Glu Arg Glu Ala Ser Glu Glu Glu Val Lys Ala Cys Ser Asp Glu Thr
      100      105      110
Val Val Ala Asp Leu Leu Val Lys Val Val Tyr Val Leu Gly Ala Ile
      115      120      125
Leu Lys Ile Phe Leu Arg Glu Gly Asn Val Leu Asn Gln His Ser Gly
      130      135      140
Met Asp Ile Glu Lys Tyr Ser Glu His Tyr Gln His Asp His Ser Pro
      145      150      155      160
Gly Ala Glu Asp Asp Ala Ala Gly Gly Gln Leu Arg Pro Thr Ala Gln
      165      170      175
Glu Arg Arg His Lys Glu Gly Ser Arg Gly Ser Pro Arg Cys Lys Arg
      180      185      190
Ala Arg Lys Ala Val Gly Glu Ser Pro Gly Cys Pro Arg Pro Arg Val
      195      200      205
Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val
      210      215      220

```

```

<210> 1362
<211> 82
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1362
Gly Thr Arg Gly Cys Cys Arg Glu Gly Thr Ala Tyr Ala Lys Ala Tyr
 1      5      10      15
Gln Phe Met Ala Ser His Leu Ser Leu Gly Lys Pro Val Ser Thr Gly
      20      25      30
Ser Ile Pro Arg Phe Asn Lys Ala Leu Phe Asn Lys Gln Ala Lys Cys

```

```

      35      40      45
Lys Pro Asn His Tyr Ser Phe Ile Gly Leu Ser Met Leu Ser Pro Glu
  50      55      60
Asn Phe Ser Ile Gly Cys Lys Tyr Ser Val Trp Phe Ser Glu Thr Lys
  65      70      75      80
Gly Phe
  82

```

```

<210> 1363
<211> 143
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1363
Gly Ala Gln Gly Val Arg Val Gly Ile Gly Glu Val Gly Arg Val Gln
  1      5      10      15
Ala Pro Arg Val Ser Leu Leu His Ser Gln Gly Val Pro Arg Gly Gly
  20      25      30
Thr Gly Glu Ala Val Lys Glu Glu Gly Arg Gly Ser Ser Leu His Pro
  35      40      45
Pro Leu Pro Pro Gln Gly Leu Gly Glu Tyr Ala Ala Cys Gln Ser His
  50      55      60
Ala Phe Met Lys Gly Val Phe Thr Phe Val Thr Gly Thr Gly Met Ala
  65      70      75      80
Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro Leu Gln
  85      90      95
Trp Ser Leu Leu Val Ala Val Val Ala Gly Ser Val Val Ser Tyr Gly
  100      105      110
Val Thr Arg Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu Phe Leu
  115      120      125
Glu Thr Gly Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg Ser
  130      135      140      143

```

```

<210> 1364
<211> 194
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (194)
<223> X = any amino acid or stop code

```

```

<400> 1364
Gly Thr Ser Glu Leu Leu Cys Ile Gln Arg Trp Asn Trp Gly Pro Ala
  1      5      10      15
Phe Pro Pro Arg Pro Gly Leu Ala Leu Ala Pro Thr Leu Gln Leu Leu
  20      25      30
Val Glu Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro
  35      40      45
Pro Pro His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro
  50      55      60
Ser Ala Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln
  65      70      75      80

```

```

Pro Gly Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln
      85                      90                      95
Asp Ser Asp Pro Arg Ser Pro Leu Gly Lys Asn Xaa Gly His Gly Trp
      100                    105                    110
Gln Val Gly Gln Gly Ser Asp Leu Gly Ser Pro Gln Pro Leu Pro Pro
      115                    120                    125
Ser Ala Ser His Leu Tyr Ser Ser Arg Ala Ser Arg Cys Ser Gln Pro
      130                    135                    140
Pro Cys Leu Ser Leu Pro Trp Phe Gly Val Arg Ser Ser Pro Ala Asn
      145                    150                    155                    160
Thr Tyr His Val Pro Val Thr Ser Leu Cys Pro Ser Pro Ala Leu His
      165                    170                    175
Tyr Thr Ala Leu Gln Ala Gly Ile Ile Ser Thr Ser Gln Ala Arg Ala
      180                    185                    190
Pro Arg
      194

```

<210> 1365

<211> 114

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (114)

<223> X = any amino acid or stop code

<400> 1365

```

Pro Leu Leu Leu Pro Arg Phe Ile Asp Ile Pro Cys Leu Leu Cys Tyr
  1                      5                      10                      15
Leu Thr Gln Val Thr Pro Asp Asp Met Tyr Ala Lys Ala Phe Leu Ile
      20                    25                    30
Lys Pro Asn Thr Ala Ile Thr Gly Thr Asp Arg Arg Lys Leu Arg Ala
      35                    40                    45
Asp Glu Thr Thr Asp Phe Pro Thr Leu Gly Thr Asp Gln Ile Tyr Glu
      50                    55                    60
Leu Leu Pro Gly Lys Asp Glu Leu Asn Ile Val Lys Ser Asn Ala His
      65                    70                    75                    80
Lys Arg Asp Ala Xaa Thr Ala Tyr Val Ser Gly Glu Asn His Ile Leu
      85                    90                    95
Ser Glu Pro Xaa Lys Asn Leu Tyr Pro Ala Val Asn Thr Leu Ser Ser
      100                   105                   110
Tyr Pro
      114

```

<210> 1366

<211> 80

<212>Amino acid

<213> Homo sapiens

<400> 1366

```

Ser Arg Gln Pro Pro Pro Leu Leu Thr Met Val Phe Leu Leu Glu Phe
  1                      5                      10                      15
Leu Phe Leu Val Phe Phe Pro Gly Cys Val Asn Gln Leu Leu Leu Ser

```

```

      20      25      30
Tyr Pro Trp Gln Gly Gln Gly Thr Ser Leu Trp Ser Ser Leu Ser Phe
      35      40      45
His Trp Leu Leu Pro Gln Glu Asp Ser Ser Arg Leu Ser Ile Phe Pro
      50      55      60
Leu Arg Ala Gly Ser Pro Pro Gln Pro Ala Gln Ala Pro Gln Arg Ile
      65      70      75      80

```

<210> 1367
 <211> 301
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1367
Lys Ser Arg Glu Gln Ser Ser Leu Phe Ala Ala Asp Ala Glu Arg Ser
  1      5      10      15
Trp Gly Gly Lys Ser Cys Cys Leu Leu Arg Trp Arg Phe Val Gly Lys
      20      25      30
Ala Ser His Phe Pro Arg Leu Leu Pro Leu Pro Gly Glu Glu Arg Pro
      35      40      45
Glu Thr Lys Glu Arg Ala Trp Lys Met Glu Gln Thr Trp Thr Arg Asp
      50      55      60
Tyr Phe Ala Glu Asp Asp Gly Glu Met Val Pro Arg Thr Ser His Thr
      65      70      75      80
Ala Ala Ser Val Ser Leu Thr Ala Phe Leu Ser Asp Thr Lys Asp Arg
      85      90      95
Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys Val Pro
      100      105      110
Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro Gln Val
      115      120      125
Gln Thr Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn Asp Leu Lys
      130      135      140
Lys Glu Asn Phe Ser Leu Lys Leu Leu Ile Tyr Phe Leu Glu Glu Arg
      145      150      155      160
Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys Arg Asn
      165      170      175
Thr Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu Gln Asp
      180      185      190
Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn Leu Asn
      195      200      205
Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg Gln Gln
      210      215      220
Glu Met Glu His Val Tyr Glu Leu Leu Glu Asn Lys Met Gln Leu Leu
      225      230      235      240
Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met Ala Ala
      245      250      255
Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu Lys Leu
      260      265      270
Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln Val Lys
      275      280      285
Pro Asp Gln Tyr Thr Glu Ala Leu Ala Gln Arg Asp Lys
      290      295      300      301

```

<210> 1368
 <211> 308
 <212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(308)

<223> X = any amino acid or stop code

<400> 1368

```

Thr Arg Arg Arg Gly Thr Thr Trp Arg Ser Pro Arg Pro Arg Arg Ala
 1           5           10           15
Ser Thr Ser Arg Pro Ser Thr Arg Pro Arg Gly Val Ala Ser Trp Pro
          20          25          30
Trp Glu Thr Ala Gly Thr Ala Thr Thr Gly Pro Gly Pro Ser Ala Arg
      35      40      45
Thr Arg Arg Arg Ala Ala Arg Arg Arg Ser Arg Pro Arg Arg Arg
 50          55          60
Ala His Gly Gly Leu Ser Gln Pro Ala Gly Trp Gln Ser Leu Leu Ser
 65          70          75          80
Phe Thr Ile Leu Phe Leu Ala Trp Leu Ala Gly Phe Ser Ser Arg Leu
          85          90          95
Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp
      100      105      110
Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu
      115      120      125
Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile
 130      135      140
Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile
 145      150      155      160
His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val
          165          170          175
Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr
          180          185          190
Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala
      195      200      205
Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala
 210      215      220
Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr
 225      230      235      240
Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr
          245          250          255
Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly
      260      265      270
Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Ala Phe Val Leu Val
          275          280          285
Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Xaa Tyr Ser Thr Phe
 290          295          300
Tyr Ile Val Gly
305          308

```

<210> 1369

<211> 212

<212> Amino acid

<213> Homo sapiens

<400> 1369

```

Arg Arg Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp
 1           5           10           15
Cys Ser His Ser Phe Arg Val Gly Pro Ala Arg Gly Trp Val Gly Pro
          20           25           30
Ser Val Ala Pro Thr Pro Leu Thr Val Pro Pro Arg Arg Glu Gly Leu
          35           40           45
Cys Arg Leu Leu Glu Leu Thr Arg Arg Pro Ile Phe Ile Thr Phe Glu
          50           55           60
Gly Gln Arg Arg Asp Pro Ala His Pro Ala Leu Arg Leu Leu Arg Gln
          65           70           75           80
His Arg His Leu Val Thr Leu Leu Leu Trp Arg Pro Gly Ser Val Thr
          85           90           95
Pro Ser Ser Asp Phe Trp Lys Glu Val Gln Leu Ala Leu Pro Arg Lys
          100          105          110
Val Arg Tyr Arg Pro Val Glu Gly Asp Pro Gln Thr Gln Leu Gln Asp
          115          120          125
Asp Lys Asp Pro Met Leu Ile Leu Arg Gly Arg Val Pro Glu Gly Arg
          130          135          140
Ala Leu Asp Ser Glu Val Asp Pro Asp Pro Glu Gly Asp Leu Gly Val
          145          150          155          160
Arg Gly Pro Val Phe Gly Glu Pro Ser Ala Pro Pro His Thr Ser Gly
          165          170          175
Val Ser Leu Gly Glu Ser Arg Ser Ser Glu Val Asp Val Ser Asp Leu
          180          185          190
Gly Ser Arg Asn Tyr Ser Ala Arg Thr Asp Phe Tyr Cys Leu Val Ser
          195          200          205
Lys Asp Asp Met
          210          212

```

<210> 1370

<211> 281

<212> Amino acid

<213> Homo sapiens

<400> 1370

```

Leu Ser His Glu Gly Trp Arg Arg Gly Arg Glu Gly Glu Arg Ile Asn
 1           5           10           15
Ser Ser Val Ala Ser Leu Ala Pro Leu Cys Ile Leu Pro Asp Leu Pro
          20           25           30
Ser Asn Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu
          35           40           45
Leu Leu Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu
          50           55           60
Lys Val Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu
          65           70           75           80
Val Gly Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly
          85           90           95
Arg Glu Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His
          100          105          110
Thr Gly Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met
          115          120          125
Asp Lys Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys
          130          135          140
Glu Ala Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala
          145          150          155          160
Gly Lys Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His
          165          170          175
Gln Ala Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala
          180          185          190

```

Ala Asp Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His
 195 200 205
 His Ala Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly
 210 215 220
 Val Asn Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His
 225 230 235 240
 Gln Ser Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu
 245 250 255
 Ala Ser Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu
 260 265 270
 Trp Arg Ser Val Ala Asn Ile Met Pro
 275 280 281

<210> 1371
 <211> 119
 <212> Amino acid
 <213> Homo sapiens

<400> 1371
 Ser Ala Ser Gly Gly Leu Gly Met Thr Val Glu Gly Pro Glu Gly Ser
 1 5 10 15
 Glu Arg Glu His Arg Pro Pro Glu Lys Pro Pro Arg Pro Pro Arg Pro
 20 25 30
 Leu His Leu Ser Asp Arg Ser Phe Arg Arg Lys Lys Asp Ser Val Glu
 35 40 45
 Ser His Pro Thr Trp Val Asp Asp Thr Arg Ile Asp Ala Asp Ala Ile
 50 55 60
 Val Glu Lys Ile Val Gln Ser Gln Asp Phe Thr Asp Gly Ser Asn Thr
 65 70 75 80
 Glu Asp Ser Asn Leu Arg Leu Phe Val Ser Arg Asp Gly Ser Ala Thr
 85 90 95
 Leu Ser Gly Ile Gln Leu Ala Thr Arg Val Ser Ser Gly Val Tyr Glu
 100 105 110
 Pro Val Val Ile Glu Ser His
 115 119

<210> 1372
 <211> 108
 <212> Amino acid
 <213> Homo sapiens

<400> 1372
 Glu Arg Ser Gly Trp Pro Gln Pro Glu Gly Thr Val Thr Ala Gln Gly
 1 5 10 15
 Pro Leu Phe Trp Glu Arg Leu Ser Gly Ala Val Thr Val Ser Ser Gly
 20 25 30
 Tyr Lys Ala Asp Met Trp Pro Ser Phe Pro Gln Val Arg Val Gly Ser
 35 40 45
 Phe Leu Phe Gly Ile Leu Phe Phe Ser Phe Gly Ser Ser Ser Leu Pro
 50 55 60
 Pro Gly Leu Pro Pro Pro Ala Ser Leu Leu Cys Ala Val Gln Trp
 65 70 75 80
 Gly Ala Arg Ala Leu Phe Leu Pro Cys Leu Lys Glu Arg Ala Leu Gly
 85 90 95

Met Glu Met Arg Asn Asn Thr Leu Ser Phe Arg Gln
 100 105 108

<210> 1373
 <211> 209
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(209)
 <223> X = any amino acid or stop code

<400> 1373
 Ser Ser Ser Asn Leu Arg Leu Ser Phe Leu Ile Asn Glu Asn Ile Leu
 1 5 10 15
 Gly Lys Cys Phe Arg Ser Gly Pro Ser Cys Ala Gly Pro Arg Ile Ser
 20 25 30
 Pro Leu Ala Ala Gln Tyr Glu Cys Pro Arg Pro Ser Leu Leu Ile Met
 35 40 45
 Ala Ser Val Pro Lys Thr Asn Lys Ile Glu Pro Arg Ser Tyr Ser Ile
 50 55 60
 Ile Pro Ser Cys Gly Ile Arg Arg Leu Gly Pro Ala Leu Asn Thr Leu
 65 70 75 80
 Ile Phe Gln Ser Lys Arg Phe Gly Pro Arg Gly His Ser Ala Lys Ser
 85 90 95
 Ile Glu Gly Ala Pro Arg Gly Lys Gly Arg Gly Arg Ala Val Ala Arg
 100 105 110
 Leu Ala Ala Asp Arg Pro Pro Ala Pro Lys Ile Gln Leu Arg Ala Phe
 115 120 125
 Xaa Leu Gln Gln Leu Xaa Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg
 130 135 140
 Leu Leu Ala Pro Asp Leu Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu
 145 150 155 160
 Lys Trp Thr His Ser Asn Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val
 165 170 175
 Ile Phe Val Thr Thr Ser Pro Gly Arg Glu Trp Val Ile Cys Ala Leu
 180 185 190
 Ala Ala Phe Leu Gly Cys Gly Ser Leu Ser Gln Ala Pro Ser Pro Glu
 195 200 205
 Ser
 209

<210> 1374
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

<400> 1374
 Leu Arg Ile Ile Asn Thr Tyr Phe Cys Phe Lys Phe Leu Ile Val Asn
 1 5 10 15
 Tyr Ile His Gly Thr Thr Lys Ala Arg Lys Pro His Val Leu Gly Glu
 20 25 30
 Ser Leu Ile Ser Ala Met Ser Arg Gln Glu Pro Lys Met Phe Val Leu

```

      35      40      45
Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly Gln Pro Arg Gly
  50      55      60
Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr Ile Cys Ser Ile
  65      70      75      80
Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro
      85      90      95
Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
      100      105      110
Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly Leu Arg Gly Lys
      115      120      125
Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp Gln Gly Glu Thr
      130      135      140
Gly Lys Lys Gly Pro Ile Gly Pro Glu
145      150      153

```

<210> 1375
 <211> 149
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1375
Phe Ala Ser Ala Met Leu Gly Ser Arg Val Asp Arg Pro Lys Leu Ser
  1      5      10      15
Val Ala Pro Ser Val Val Leu Glu Glu Asp Gln Val Leu Val Ser Pro
      20      25      30
Ala Val Asp Leu Glu Ala Gly Cys Arg Leu Arg Asp Phe Thr Glu Lys
      35      40      45
Ile Met Asn Val Lys Gly Lys Val Ile Leu Ser Met Leu Val Val Ser
      50      55      60
Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn Ser Thr Glu Gly Ser
      65      70      75      80
Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu Val Asp Asp Ser Ser
      85      90      95
Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe Asn Asn Gly Ile His
      100      105      110
Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys Glu Lys Gly Arg Glu
      115      120      125
Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser Phe Gly Tyr Gly Thr
      130      135      140
Gly Leu Ile Gln Thr
145      149

```

<210> 1376
 <211> 416
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1376
Gly Ser His Arg Phe Ser Leu Ala Ser Pro Leu Asp Pro Glu Val Gly
  1      5      10      15
Pro Tyr Cys Asp Thr Pro Thr Met Arg Thr Leu Phe Asn Leu Leu Trp
      20      25      30
Leu Ala Leu Ala Cys Ser Pro Val His Thr Thr Leu Ser Lys Ser Asp

```

```
<210> 1377
<211> 316
<212> Amino acid
<213> Homo sapiens
```

858

```

      20      25      30
Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Glu Tyr Gln Ile Leu
      35      40      45
Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser Glu
      50      55      60
Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile Ala Thr Cys Leu
      65      70      75      80
Glu Leu Arg Ser Ala Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu Phe
      85      90      95
Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile Leu
      100      105      110
Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu Arg
      115      120      125
Arg Ile Leu Ala Pro Gly Glu Glu Glu Asn Leu Glu Phe Glu Glu Asp
      130      135      140
Glu Glu Glu Gly Gly Ala Gly Ala Gly Ser Pro Asp Ser Phe Pro Ala
      145      150      155      160
Arg Val Pro Gly Thr Leu Leu Pro Arg Leu Pro Ser Glu Pro Gly Met
      165      170      175
Thr Leu Leu Thr Ile Arg Ile Glu Lys Ile Gly Leu Lys Asp Ala Gly
      180      185      190
Gln Cys Ile Asn Pro Tyr Ile Thr Val Ser Val Lys Asp Leu Asn Gly
      195      200      205
Ile Asp Leu Thr Pro Val Gln Asp Thr Pro Val Ala Ser Arg Lys Glu
      210      215      220
Asp Thr Tyr Val His Phe Asn Val Asp Ile Glu Leu Gln Lys His Val
      225      230      235      240
Glu Lys Leu Thr Lys Gly Ala Ala Ile Phe Phe Glu Phe Lys His Tyr
      245      250      255
Lys Pro Lys Lys Arg Phe Thr Ser Thr Lys Cys Phe Ala Phe Met Glu
      260      265      270
Met Asp Glu Ile Lys Leu Gly Pro Ile Val Ile Glu Leu Tyr Lys Lys
      275      280      285
Pro Thr Asp Phe Lys Arg Lys Gln Leu Gln Leu Leu Thr Lys Lys Pro
      290      295      300
Leu Tyr Leu His Leu His Gln Thr Leu His Lys Glu
      305      310      315      316

```

<210> 1378

<211> 90

<212> Amino acid

<213> Homo sapiens

<400> 1378

```

Gly Ser Ile Thr Ser Glu Pro Ser Leu Asp Ser Leu Gln Pro Leu Pro
  1      5      10      15
Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp
      20      25      30
Tyr Arg Arg Pro Pro Pro Gly Leu Ala Tyr Phe Cys Ile Phe Ser Arg
      35      40      45
Asp Glu Val Ser Pro Cys Trp Pro Gly Cys Ser Pro Ser Pro Asp Leu
      50      55      60
Met Ile Arg Leu Pro Arg Pro Pro Ser Val Gly Ile Thr Gly Val Ser
      65      70      75      80
His Arg Ala Trp Pro Thr Ile Asp Asn Phe
      85      90

```

<210> 1379

<211> 332
 <212>Amino acid
 <213> Homo sapiens

<400> 1379
 Lys Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser
 1 5 10 15
 Pro Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr
 20 25 30
 His Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu
 35 40 45
 Cys Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro
 50 55 60
 Thr His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp
 65 70 75 80
 Cys Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His
 85 90 95
 Trp Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Ser
 100 105 110
 Gly Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu
 115 120 125
 Ser Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln
 130 135 140
 Val Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val
 145 150 155 160
 Tyr Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser
 165 170 175
 Tyr Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu
 180 185 190
 Pro Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp
 195 200 205
 Ala Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu
 210 215 220
 Val Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp
 225 230 235 240
 Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Val
 245 250 255
 Arg Pro Pro Pro Ser Gln Val His Ser His Cys Arg Pro Cys Leu Cys
 260 265 270
 Lys Asp Ala Val Pro Tyr Gln Arg Gly Ser Leu Lys Arg Thr His Pro
 275 280 285
 Lys Gln Gly Lys Ile Gly Gly Gly Thr Ser Ala Phe Leu Val Ser Leu
 290 295 300
 Thr Leu Ala Ser Ser Ser Ser Leu Ser Ser Pro Thr Ser Phe Leu
 305 310 315 320
 Tyr Leu Phe His Arg Leu Asp Arg Arg Ser Leu Pro
 325 330 332

<210> 1380
 <211> 117
 <212>Amino acid
 <213> Homo sapiens

<400> 1380
 Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Asn Ile Ile Val Lys


```

      1           5           10           15
Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Val Gln Met Leu
      20           25           30
Ile Ser Val Thr Gly Leu Lys Gly Val Glu Ala Gln Asn Gly Ser Glu
      35           40           45
Ser Glu Val Phe Val Gly Lys Tyr Glu Thr Leu Val Phe Tyr Trp Pro
      50           55           60
Ser Leu Leu Cys Leu Ala Phe Leu Leu Gly Arg Phe Leu His Met Phe
      65           70           75           80
Val Lys Ala Leu Arg Val His Leu Gly Trp Glu Leu Gln Val Glu Glu
      85           90           95
Lys Ser Val Leu Glu Val His Gln Gly Glu His Val Lys Gln Leu Leu
      100           105           110
Arg Ile Pro Arg Pro
      115           117

```

```

<210> 1381
<211> 216
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1381
Lys Val Asn Arg Lys Leu Arg Lys Lys Gly Lys Ile Ser His Asp Lys
      1           5           10           15
Arg Lys Lys Ser Arg Ser Lys Ala Ile Gly Ser Asp Thr Ser Asp Ile
      20           25           30
Val His Ile Trp Cys Pro Glu Gly Met Lys Thr Ser Asp Ile Lys Glu
      35           40           45
Leu Asn Ile Val Leu Pro Glu Phe Glu Lys Thr His Leu Glu His Gln
      50           55           60
Gln Arg Ile Glu Ser Lys Val Cys Lys Ala Ala Ile Ala Thr Phe Tyr
      65           70           75           80
Val Asn Val Lys Glu Gln Phe Ile Lys Met Leu Lys Glu Ser Gln Met
      85           90           95
Leu Thr Asn Leu Lys Arg Lys Asn Ala Lys Met Ile Ser Asp Ile Glu
      100           105           110
Lys Lys Arg Gln Arg Met Ile Glu Val Gln Asp Glu Leu Leu Arg Leu
      115           120           125
Glu Pro Gln Leu Lys Gln Leu Gln Thr Lys Tyr Asp Glu Leu Lys Glu
      130           135           140
Arg Lys Ser Ser Leu Arg Asn Ala Ala Tyr Phe Leu Ser Asn Leu Lys
      145           150           155           160
Gln Leu Tyr Gln Asp Tyr Ser Asp Val Gln Ala Gln Glu Pro Asn Val
      165           170           175
Lys Glu Thr Tyr Asp Ser Ser Ser Leu Pro Ala Leu Leu Phe Lys Ala
      180           185           190
Arg Thr Leu Leu Gly Ala Glu Ser His Leu Arg Asn Ile Asn His Gln
      195           200           205
Leu Glu Lys Leu Leu Asp Gln Gly
      210           215 216

```

```

<210> 1382
<211> 137
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(137)

<223> X = any amino acid or stop code

<400> 1382

```

Val Trp Val Ala Met Glu Glu Pro Pro Val Arg Glu Glu Glu Xaa Glu
 1          5          10          15
Glu Gly Glu Glu Asp Glu Glu Arg Asp Glu Val Gly Pro Glu Gly Ala
          20          25          30
Leu Gly Lys Ser Pro Phe Gln Leu Thr Ala Glu Asp Val Tyr Asp Ile
          35          40          45
Ser Tyr Leu Leu Gly Arg Glu Leu Met Ala Leu Gly Ser Asp Pro Arg
          50          55          60
Val Thr Gln Leu Gln Phe Lys Val Val Arg Val Leu Glu Met Leu Glu
          65          70          75          80
Ala Leu Val Asn Glu Gly Ser Leu Ala Leu Glu Glu Leu Lys Met Glu
          85          90          95
Arg Asp His Leu Arg Lys Glu Val Glu Gly Leu Arg Arg Gln Ser Pro
          100          105          110
Pro Ala Ser Gly Glu Trp Pro Asp Ser Thr Lys Arg Arg Pro Arg Arg
          115          120          125
Lys Lys Arg Lys Arg Cys Cys Gly Tyr
          130          135          137

```

<210> 1383

<211> 90

<212>Amino acid

<213> Homo sapiens

<400> 1383

```

Pro Arg Asn Asp His Arg Leu Thr Gln Ser Arg Arg Asp Ser Ser Ser
 1          5          10          15
Lys Thr Arg Ala Phe Leu Val Pro Arg Phe Leu Pro Ala His Ala Gly
          20          25          30
Val Thr Ser Glu Glu Arg Thr Ala Met Lys Arg Glu Gly Gly Ala Ala
          35          40          45
His Leu Cys Ser Asp Ser Leu Pro Glu Ser Gln Gln Gln Asp Gly Asn
          50          55          60
His Ala Pro Asn Phe Ser Ser His Gly Ser Cys Arg Arg Arg Gln Arg
          65          70          75          80
Arg Arg His Asp Lys Ala Leu His Ala Arg
          85          90

```

<210> 1384

<211> 166

<212>Amino acid

<213> Homo sapiens

<400> 1384

```

Thr His Ala Ser Glu Lys Ser Arg Ala Thr Met Ser Ser Trp Ser Arg
 1          5          10          15

```

Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln Pro His Val Ser Arg Thr
 20 25 30
 Leu Phe Leu Leu Leu Leu Ala Ala Ser Ala Trp Gly Val Thr Leu
 35 40 45
 Ser Pro Lys Asp Cys Gln Val Phe Arg Ser Asp His Gly Ser Ser Ile
 50 55 60
 Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr
 65 70 75 80
 Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn
 85 90 95
 Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn
 100 105 110
 Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu
 115 120 125
 Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly
 130 135 140
 Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn
 145 150 155 160
 Gln Leu Glu Val Leu Glu
 165 166

<210> 1385

<211> 164

<212>Amino acid

<213> Homo sapiens

<400> 1385

Glu Arg Pro Arg Ile Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe
 1 5 10 15
 Leu Cys His Leu Val Phe Cys Tyr Val Phe Ile Ala Ser Gly Leu Ile
 20 25 30
 Ile Asn Thr Ile Gln Leu Phe Thr Leu Leu Leu Trp Pro Ile Asn Lys
 35 40 45
 Gln Leu Phe Arg Lys Ile Asn Cys Arg Leu Ser Tyr Cys Ile Ser Ser
 50 55 60
 Gln Leu Val Met Leu Leu Glu Trp Trp Ser Gly Thr Glu Cys Thr Ile
 65 70 75 80
 Phe Thr Asp Pro Arg Ala Tyr Leu Lys Tyr Gly Lys Glu Asn Ala Ile
 85 90 95
 Val Val Leu Asn His Lys Phe Glu Ile Asp Phe Leu Cys Gly Trp Ser
 100 105 110
 Leu Ser Glu Arg Phe Gly Leu Leu Gly Val Ser Gln Lys Cys Ile Pro
 115 120 125
 Pro Cys Leu Thr His Phe Phe Gly Ser Ala Pro Pro Leu Val Phe Leu
 130 135 140
 Leu Leu Val Ile Gln Asn Leu Gln Lys Asn Gln Gln Ser Phe Tyr Leu
 145 150 155 160
 Met Lys Trp Ser
 164

<210> 1386

<211> 289

<212>Amino acid

<213> Homo sapiens

<400> 1386

```

Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly
 1           5           10           15
Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly
           20           25           30
Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp
           35           40           45
Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Gln Ala Glu
           50           55           60
Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro
           65           70           75           80
Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys
           85           90           95
Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg
           100          105          110
Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu
           115          120          125
His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser
           130          135          140
Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile
           145          150          155          160
Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln
           165          170          175
Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp
           180          185          190
Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys
           195          200          205
Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro
           210          215          220
Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Leu Gln Ser His Pro Thr
           225          230          235          240
Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr Ser
           245          250          255
Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu Val
           260          265          270
Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln Val
           275          280          285
Gly
289

```

<210> 1387

<211> 320

<212>Amino acid

<213> Homo sapiens

<400> 1387

```

Arg Phe Gly Thr Arg Gly Leu Ala Lys Ser Lys Gly Val Val Leu Met
 1           5           10           15
Ala Leu Cys Ala Leu Thr Arg Ala Leu Arg Ser Leu Asn Leu Ala Pro
           20           25           30
Pro Thr Val Ala Ala Pro Ala Pro Ser Leu Phe Pro Ala Ala Gln Met
           35           40           45
Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro
           50           55           60
Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser
           65           70           75           80
Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys
           85           90           95

```

```

Ser Gly Gly Arg Asp His Thr Gly Arg Ile Arg Val His Gly Ile Gly
      100      105      110
Gly Gly His Lys Gln Arg Tyr Arg Met Ile Asp Phe Leu Arg Phe Arg
      115      120      125
Pro Glu Glu Thr Lys Ser Gly Pro Phe Glu Glu Lys Val Ile Gln Val
      130      135      140
Arg Tyr Asp Pro Cys Arg Ser Ala Asp Ile Ala Leu Val Ala Gly Gly
      145      150      155      160
Ser Arg Lys Arg Trp Ile Ile Ala Thr Glu Asn Met Gln Ala Gly Asp
      165      170      175
Thr Ile Leu Asn Ser Asn His Ile Gly Arg Met Ala Val Ala Ala Arg
      180      185      190
Glu Gly Asp Ala His Pro Leu Gly Ala Leu Pro Val Gly Thr Leu Ile
      195      200      205
Asn Asn Val Glu Ser Glu Pro Gly Arg Gly Ala Gln Tyr Ile Arg Ala
      210      215      220
Ala Gly Thr Cys Gly Val Leu Leu Arg Lys Val Asn Gly Thr Ala Ile
      225      230      235      240
Ile Gln Leu Pro Ser Lys Arg Gln Met Gln Val Leu Glu Thr Cys Val
      245      250      255
Ala Thr Val Gly Arg Val Ser Asn Val Asp His Asn Lys Arg Val Ile
      260      265      270
Gly Lys Ala Gly Arg Asn Arg Trp Leu Gly Lys Arg Pro Asn Ser Gly
      275      280      285
Arg Trp His Arg Lys Gly Gly Trp Ala Gly Arg Lys Ile Arg Pro Leu
      290      295      300
Pro Pro Met Lys Ser Tyr Val Lys Leu Pro Ser Ala Ser Ala Gln Ser
      305      310      315      320

```

<210> 1388

<211> 140

<212>Amino acid

<213> Homo sapiens

<400> 1388

```

Pro Val Gln Gly Ala Arg Cys Trp Leu Asp Ala Arg Arg Asn Val Arg
  1      5      10      15
Val Phe Ser Gly Val Cys Cys Gly Cys Gly Ile His Gly Tyr Trp Ala
      20      25      30
Glu Pro Cys Gly Gly Cys Gly Ala Met Glu Gly Leu Arg Ser Ser Val
      35      40      45
Glu Leu Asp Pro Glu Leu Thr Pro Gly Lys Leu Asp Glu Glu Met Val
      50      55      60
Gly Leu Pro Pro His Asp Ala Ser Pro Gln Val Thr Phe His Ser Leu
      65      70      75      80
Asp Gly Lys Thr Val Val Cys Pro His Phe Met Gly Leu Leu Leu Gly
      85      90      95
Leu Leu Leu Leu Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg
      100      105      110
Gly Glu Arg Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys
      115      120      125
Ser Gln Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp
      130      135      140

```

<210> 1389

<211> 448

<212>Amino acid
<213> Homo sapiens

<400> 1389

```

Gly Ala Arg Gly Arg Pro Leu Ala Glu Thr Trp Pro Phe Leu Thr Ala
 1           5           10           15
Pro Val Leu Pro Gly Gln Leu Gln Ile Thr Glu Pro Thr Met Ala Glu
           20           25           30
Lys Gly Asp Cys Ile Ala Ser Val Tyr Gly Tyr Asp Leu Gly Gly Arg
           35           40           45
Phe Val Asp Phe Gln Pro Leu Gly Phe Gly Val Asn Gly Leu Val Leu
           50           55           60
Ser Ala Val Asp Ser Arg Ala Cys Arg Lys Val Ala Val Lys Lys Ile
           65           70           75           80
Ala Leu Ser Asp Ala Arg Ser Met Lys His Ala Leu Arg Glu Ile Lys
           85           90           95
Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val Tyr Glu Val
           100          105          110
Leu Gly Pro Lys Gly Thr Asp Leu Gln Gly Glu Leu Phe Lys Phe Ser
           115          120          125
Val Ala Tyr Ile Val Gln Glu Tyr Met Glu Thr Asp Leu Ala Arg Leu
           130          135          140
Leu Glu Gln Gly Thr Leu Ala Glu Glu His Ala Lys Leu Phe Met Tyr
           145          150          155          160
Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn Val Leu His
           165          170          175
Arg Asp Leu Lys Pro Ala Asn Ile Phe Ile Ser Thr Glu Asp Leu Val
           180          185          190
Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Val Asp Gln His Tyr
           195          200          205
Ser His Lys Gly Tyr Leu Ser Glu Gly Leu Val Thr Lys Trp Tyr Arg
           210          215          220
Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn Tyr Thr Lys Ala Ile Asp
           225          230          235          240
Met Trp Ala Ala Gly Cys Ile Leu Ala Glu Met Leu Thr Gly Arg Met
           245          250          255
Leu Phe Ala Gly Ala His Glu Leu Glu Gln Met Gln Leu Ile Leu Glu
           260          265          270
Thr Ile Pro Val Ile Arg Glu Glu Asp Lys Asp Glu Leu Leu Arg Val
           275          280          285
Met Pro Ser Phe Val Ser Ser Thr Trp Glu Val Lys Arg Pro Leu Arg
           290          295          300
Lys Leu Leu Pro Glu Val Asn Ser Glu Ala Ile Asp Phe Leu Glu Lys
           305          310          315          320
Ile Leu Thr Phe Asn Pro Met Asp Arg Leu Thr Ala Glu Met Gly Leu
           325          330          335
Gln His Pro Tyr Met Ser Pro Tyr Ser Cys Pro Glu Asp Glu Pro Thr
           340          345          350
Ser Gln His Pro Phe Arg Ile Glu Asp Glu Ile Asp Asp Ile Val Leu
           355          360          365
Met Ala Ala Asn Gln Ser Gln Leu Ser Asn Trp Asp Thr Cys Ser Ser
           370          375          380
Arg Tyr Pro Val Ser Leu Ser Ser Asp Leu Glu Trp Arg Pro Asp Arg
           385          390          395          400
Cys Gln Asp Ala Ser Glu Val Gln Arg Asp Pro Arg Ala Gly Ser Ala
           405          410          415
Pro Leu Ala Glu Asn Val Gln Val Asp Pro Arg Lys Asp Ser His Ser
           420          425          430
Ser Ser Ala Ser Cys Gln Ala Gly Arg Asn Gly Val Ser Arg Tyr Gln
           435          440          445          448

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<210> 1390
 <211> 815
 <212> Amino acid
 <213> Homo sapiens

<400> 1390
 Met Arg Thr Leu Gly Thr Cys Leu Ala Thr Leu Ala Gly Leu Leu Leu
 1 5 10 15
 Thr Ala Ala Gly Glu Thr Phe Ser Gly Gly Cys Leu Phe Asp Glu Pro
 20 25 30
 Tyr Ser Thr Cys Gly Tyr Ser Gln Ser Glu Gly Asp Asp Phe Asn Trp
 35 40 45
 Glu Gln Val Asn Thr Leu Thr Lys Pro Thr Ser Asp Pro Trp Met Pro
 50 55 60
 Ser Gly Ser Phe Met Leu Val Asn Ala Ser Gly Arg Pro Glu Gly Gln
 65 70 75 80
 Arg Ala His Leu Leu Leu Pro Gln Leu Lys Glu Asn Asp Thr His Cys
 85 90 95
 Ile Asp Phe His Tyr Phe Val Ser Ser Lys Ser Asn Ser Pro Pro Gly
 100 105 110
 Leu Leu Asn Val Tyr Val Lys Val Asn Asn Gly Pro Leu Gly Asn Pro
 115 120 125
 Ile Trp Asn Ile Ser Gly Asp Pro Thr Arg Thr Trp Asn Arg Ala Glu
 130 135 140
 Leu Ala Ile Ser Thr Phe Trp Pro Asn Phe Tyr Gln Val Ile Phe Glu
 145 150 155 160
 Val Ile Thr Ser Gly His Gln Gly Tyr Leu Ala Ile Asp Glu Val Lys
 165 170 175
 Val Leu Gly His Pro Cys Thr Arg Thr Pro His Phe Leu Arg Ile Gln
 180 185 190
 Asn Val Glu Val Asn Ala Gly Gln Phe Ala Thr Phe Gln Cys Ser Ala
 195 200 205
 Ile Gly Arg Thr Val Ala Gly Asp Arg Leu Trp Leu Gln Gly Ile Asp
 210 215 220
 Val Arg Asp Ala Pro Leu Lys Glu Ile Lys Val Thr Ser Ser Arg Arg
 225 230 235 240
 Phe Ile Ala Ser Phe Asn Val Val Asn Thr Thr Lys Arg Asp Ala Gly
 245 250 255
 Lys Tyr Arg Cys Met Ile Arg Thr Glu Gly Gly Val Gly Ile Ser Asn
 260 265 270
 Tyr Ala Glu Leu Val Val Lys Glu Pro Pro Val Pro Ile Ala Pro Pro
 275 280 285
 Gln Leu Ala Ser Val Gly Ala Thr Tyr Leu Trp Ile Gln Leu Asn Ala
 290 295 300
 Asn Ser Ile Asn Gly Asp Gly Pro Ile Val Ala Arg Glu Val Glu Tyr
 305 310 315 320
 Cys Thr Ala Ser Gly Ser Trp Asn Asp Arg Gln Pro Val Asp Ser Thr
 325 330 335
 Ser Tyr Lys Ile Gly His Leu Asp Pro Asp Thr Glu Tyr Glu Ile Ser
 340 345 350
 Val Leu Leu Thr Arg Pro Gly Glu Gly Gly Thr Gly Ser Pro Gly Pro
 355 360 365
 Ala Leu Arg Thr Arg Thr Lys Cys Ala Asp Pro Met Arg Gly Pro Arg
 370 375 380
 Lys Leu Glu Val Val Glu Val Lys Ser Arg Gln Ile Thr Ile Arg Trp
 385 390 395 400

Glu Pro Phe Gly Tyr Asn Val Thr Arg Cys His Ser Tyr Asn Leu Thr
 405 410 415
 Val His Tyr Cys Tyr Gln Val Gly Gly Gln Glu Gln Val Arg Glu Glu
 420 425 430
 Val Ser Trp Asp Thr Glu Asn Ser His Pro Gln His Thr Ile Thr Asn
 435 440 445
 Leu Ser Pro Tyr Thr Asn Val Ser Val Lys Leu Ile Leu Met Asn Pro
 450 455 460
 Glu Gly Arg Lys Glu Ser Gln Glu Leu Ile Val Gln Thr Asp Glu Asp
 465 470 475 480
 Leu Pro Gly Ala Val Pro Thr Glu Ser Ile Gln Gly Ser Thr Phe Glu
 485 490 495
 Glu Lys Ile Phe Leu Gln Trp Arg Glu Pro Thr Gln Thr Tyr Gly Val
 500 505 510
 Ile Thr Leu Tyr Glu Ile Thr Tyr Lys Ala Val Ser Ser Phe Asp Pro
 515 520 525
 Glu Ile Asp Leu Ser Asn Gln Ser Gly Arg Val Ser Lys Leu Gly Asn
 530 535 540
 Glu Thr His Phe Leu Phe Phe Gly Leu Tyr Pro Gly Thr Thr Tyr Ser
 545 550 555 560
 Phe Thr Ile Arg Ala Ser Thr Ala Lys Gly Phe Gly Pro Pro Ala Thr
 565 570 575
 Asn Gln Phe Thr Thr Lys Ile Ser Ala Pro Ser Met Pro Ala Tyr Glu
 580 585 590
 Leu Glu Thr Pro Leu Asn Gln Thr Asp Asn Thr Val Thr Val Met Leu
 595 600 605
 Lys Pro Ala His Ser Arg Gly Ala Pro Val Ser Val Tyr Gln Ile Val
 610 615 620
 Val Glu Glu Glu Arg Pro Arg Arg Thr Lys Lys Thr Thr Glu Ile Leu
 625 630 635 640
 Lys Cys Tyr Pro Val Pro Ile His Phe Gln Asn Ala Ser Leu Leu Asn
 645 650 655
 Ser Gln Tyr Tyr Phe Ala Ala Glu Phe Pro Ala Asp Ser Leu Gln Ala
 660 665 670
 Ala Gln Pro Phe Thr Ile Gly Asp Asn Lys Thr Tyr Asn Gly Tyr Trp
 675 680 685
 Asn Thr Pro Leu Leu Pro Tyr Lys Ser Tyr Arg Ile Tyr Phe Gln Ala
 690 695 700
 Ala Ser Arg Ala Asn Gly Glu Thr Lys Ile Asp Cys Val Gln Val Ala
 705 710 715 720
 Thr Lys Gly Ala Ala Thr Pro Lys Pro Val Pro Glu Pro Glu Lys Gln
 725 730 735
 Thr Asp His Thr Val Lys Ile Ala Gly Val Ile Ala Gly Ile Leu Leu
 740 745 750
 Phe Val Ile Ile Phe Leu Gly Val Val Leu Val Met Lys Lys Arg Leu
 755 760 765
 Tyr Lys His Gly Ala Ser Ile Cys Ser Ala Ser Gly Glu Ala Ser Gly
 770 775 780
 Ser Phe Gln Ser Trp Arg Lys Ala Lys His Lys Gln Ala Cys Pro Met
 785 790 795 800
 Ala Arg Ala Gly Ala Arg Glu Arg Ala Gly Gly Cys Leu Lys Leu
 805 810 815

<210> 1391

<211> 142

<212> Amino acid

<213> Homo sapiens

<400> 1391

Gly Ile Arg Gln Leu Leu Gln Leu Ser Arg Ala Ser Met Ala Ala Arg
 1 5 10 15
 Lys Ser Trp Thr Ala Leu Arg Leu Cys Ala Thr Val Val Val Leu Asp
 20 25 30
 Met Val Val Cys Lys Gly Phe Val Gln Asp Leu Asp Glu Ser Phe Lys
 35 40 45
 Glu Asn Arg Asn Asp Asp Ile Trp Leu Val His Phe Tyr Ala Pro Trp
 50 55 60
 Cys Gly His Cys Lys Lys Leu Glu Pro Ile Trp Asn Glu Ala Gly Leu
 65 70 75 80
 Glu Met Lys Ser Ile Gly Ser Pro Val Lys Ala Gly Lys Met Asp Ala
 85 90 95
 Thr Ser Tyr Ser Ser Ile Ala Ser Glu Phe Gly Val Arg Gly Tyr Pro
 100 105 110
 Thr Ile Lys Leu Ala Leu Ile Arg Pro Leu Pro Ser Gln Gln Met Phe
 115 120 125
 Glu His Met His Lys Arg His Arg Val Phe Phe Val Tyr Val
 130 135 140 142

<210> 1392

<211> 282

<212>Amino acid

<213> Homo sapiens

<400> 1392

Gly Leu Val Ile Val Ile Ser His Phe Ser Pro Ser Pro Gly Leu Leu
 1 5 10 15
 Pro Ala Thr Gln Ser Pro Ala Met Ser Asp Pro Ile Thr Leu Asn Val
 20 25 30
 Gly Gly Lys Leu Tyr Thr Thr Ser Leu Ala Thr Leu Thr Ser Phe Pro
 35 40 45
 Asp Ser Met Leu Gly Ala Met Phe Ser Gly Lys Met Pro Thr Lys Arg
 50 55 60
 Asp Ser Gln Gly Asn Cys Phe Ile Asp Arg Asp Gly Lys Val Phe Arg
 65 70 75 80
 Tyr Ile Leu Asn Phe Leu Arg Thr Ser His Leu Asp Leu Pro Glu Asp
 85 90 95
 Phe Gln Glu Met Gly Leu Leu Arg Arg Glu Ala Asp Phe Tyr Gln Val
 100 105 110
 Gln Pro Leu Ile Glu Ala Leu Gln Glu Lys Glu Val Glu Leu Ser Lys
 115 120 125
 Ala Glu Lys Asn Ala Met Leu Asn Ile Thr Leu Asn Gln Arg Val Gln
 130 135 140
 Thr Val His Phe Thr Val Arg Glu Ala Pro Gln Ile Tyr Ser Leu Ser
 145 150 155 160
 Ser Ser Ser Met Glu Val Phe Asn Ala Asn Ile Phe Ser Thr Ser Cys
 165 170 175
 Leu Phe Leu Lys Leu Leu Gly Ser Lys Leu Phe Tyr Cys Ser Asn Gly
 180 185 190
 Asn Leu Ser Ser Ile Thr Ser His Leu Gln Asp Pro Asn His Leu Thr
 195 200 205
 Leu Asp Trp Val Ala Asn Val Glu Gly Leu Pro Glu Glu Glu Tyr Thr
 210 215 220
 Lys Gln Asn Leu Lys Arg Leu Trp Val Val Pro Ala Asn Lys Gln Ile
 225 230 235 240
 Asn Ser Phe Gln Val Phe Val Glu Glu Val Leu Lys Ile Ala Leu Ser
 245 250 255
 Asp Gly Phe Cys Ile Asp Ser Ser His Pro His Ala Leu Asp Phe Met
 260 265 270

<210> 1393
 <211> 308
 <212>Amino acid
 <213> Homo sapiens

<400> 1393
 Ser Cys Ala Asp Asn Leu Val Ala Ala Ser Gly Gly Cys Trp Phe Val
 1 5 10 15
 Leu Gly Glu Arg Arg Ala Gly Ser Leu Leu Ser Ala Ser Tyr Gly Thr
 20 25 30
 Phe Ala Met Pro Gly Met Val Leu Phe Gly Arg Arg Trp Ala Ile Ala
 35 40 45
 Ser Asp Asp Leu Val Phe Pro Gly Phe Phe Glu Leu Val Val Arg Val
 50 55 60
 Leu Trp Trp Ile Gly Ile Leu Thr Leu Tyr Leu Met His Arg Gly Lys
 65 70 75 80
 Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser Tyr Leu Ile Val Leu
 85 90 95
 Met Ile Leu Leu Ala Val Val Ile Cys Thr Val Ser Ala Ile Met Cys
 100 105 110
 Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly Pro Arg Lys Ser Met
 115 120 125
 Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe Phe Pro Glu Met Val
 130 135 140
 Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp Gly Val Gln Cys Asp
 145 150 155 160
 Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val Val Val Ser Trp Ile
 165 170 175
 Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile Val Phe Asp Pro Leu
 180 185 190
 Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly Pro Ser His Leu Asp
 195 200 205
 Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu Lys Thr Ala Ala Thr
 210 215 220
 Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys Cys Cys Ile Gly Lys
 225 230 235 240
 Asp Asp His Thr Arg Val Ala Phe Ser Ser Thr Ala Glu Leu Phe Ser
 245 250 255
 Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser Asp Ile Ala Ala Gly
 260 265 270
 Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile Arg Asn Asn Gln Asp
 275 280 285
 Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala Pro Arg Lys Leu Ile
 290 295 300
 Trp Met Gln Asn
 305 308

<210> 1394
 <211> 238
 <212>Amino acid
 <213> Homo sapiens

<400> 1394

```

Phe Arg Ala Ala Thr Ala Ala Ala Lys Gly Asn Gly Gly Gly Gly Gly
 1           5           10           15
Arg Ala Gly Ala Gly Asp Ala Ser Gly Thr Arg Lys Lys Lys Gly Pro
          20          25          30
Gly Pro Leu Ala Thr Ala Tyr Leu Val Ile Tyr Asn Val Val Met Thr
          35          40          45
Ala Gly Trp Leu Val Ile Ala Val Gly Leu Val Arg Ala Tyr Leu Ala
          50          55          60
Lys Gly Ser Tyr His Ser Leu Tyr Tyr Ser Ile Glu Lys Pro Leu Lys
          65          70          75          80
Phe Phe Gln Thr Gly Ala Leu Leu Glu Ile Leu His Cys Ala Ile Gly
          85          90          95
Ile Val Pro Ser Ser Val Val Leu Thr Ser Phe Gln Val Met Ser Arg
          100         105         110
Val Phe Leu Ile Trp Ala Val Thr His Ser Val Lys Glu Val Gln Ser
          115         120         125
Glu Asp Ser Val Leu Phe Val Ile Ala Trp Thr Ile Thr Glu Ile Ile
          130         135         140
Arg Tyr Ser Phe Tyr Thr Phe Ser Leu Leu Asn His Leu Pro Tyr Leu
          145         150         155         160
Ile Lys Arg Ala Arg Tyr Thr Leu Phe Ile Val Leu Tyr Pro Met Gly
          165         170         175
Val Ser Gly Glu Leu Leu Thr Ile Tyr Ala Ala Leu Pro Phe Val Arg
          180         185         190
Gln Ala Gly Leu Tyr Ser Ile Ser Leu Pro Asn Ser Thr Lys Lys Ile
          195         200         205
Phe Leu Ile Ser Gln Val Trp Trp His Met Leu Ala Val Ser Ala Asp
          210         215         220
Ala Lys Ala Ala Glu Met Pro Ala Val Leu Lys Pro Gly Pro
          225         230         235         238

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<210> 1395

<211> 231

<212>Amino acid

<213> Homo sapiens

<400> 1395

```

Met Leu Thr Gly Val Gly Cys Leu Val Ser Ser Glu Ser Leu Ser Cys
 1           5           10           15
Val Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser
          20          25          30
Glu Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ser Ala Ser
          35          40          45
Ser Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser
          50          55          60
Ala Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His
          65          70          75          80
Val Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Glu Gly
          85          90          95
Lys Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn
          100         105         110
Val Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr
          115         120         125
Ser Cys Arg Gly Lys Pro Trp Lys Cys Tyr Glu Glu Gln Cys Val
          130         135         140
Phe Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val
          145         150         155         160

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Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser
 165 170 175
 Gly Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys
 180 185 190
 Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His
 195 200 205
 Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu
 210 215 220
 Leu Leu Arg Gly Leu Leu Pro
 225 230 231

<210> 1396
 <211> 216
 <212> Amino acid
 <213> Homo sapiens

<400> 1396
 Val Pro Ala Arg Arg Arg Ala Met Glu Ile Gly Thr Glu Ile Ser Arg
 1 5 10 15
 Lys Ile Arg Ser Ala Ile Lys Gly Lys Leu Gln Glu Leu Gly Ala Tyr
 20 25 30
 Val Asp Glu Glu Leu Pro Asp Tyr Ile Met Val Met Val Ala Asn Lys
 35 40 45
 Lys Ser Gln Asp Gln Met Thr Glu Asp Leu Ser Leu Phe Leu Gly Asn
 50 55 60
 Asn Thr Ile Arg Phe Thr Val Trp Leu His Gly Val Leu Asp Lys Leu
 65 70 75 80
 Arg Ser Val Thr Thr Glu Pro Ser Ser Leu Lys Ser Ser Asp Thr Asn
 85 90 95
 Ile Phe Asp Ser Asn Val Pro Ser Asn Lys Ser Asn Phe Ser Arg Gly
 100 105 110
 Asp Glu Arg Arg His Glu Ala Ala Val Pro Pro Leu Ala Ile Pro Ser
 115 120 125
 Ala Arg Pro Glu Lys Arg Asp Ser Arg Val Ser Thr Ser Ser Gln Glu
 130 135 140
 Ser Lys Thr Thr Asn Val Arg Gln Thr Tyr Asp Asp Gly Ala Ala Thr
 145 150 155 160
 Arg Leu Met Ser Thr Val Lys Pro Leu Arg Glu Pro Ala Pro Ser Glu
 165 170 175
 Asp Val Ile Asp Ile Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp
 180 185 190
 Leu Asn Phe Val Gln Glu Lys Pro Leu Ser Gln Lys Lys Pro Thr Val
 195 200 205
 Thr Leu Thr Tyr Gly Ser Ser Arg
 210 215 216

<210> 1397
 <211> 135
 <212> Amino acid
 <213> Homo sapiens

<400> 1397
 Ala Ser Arg Val Leu Ala Ala Val Met Gly Leu Pro Trp Gly Gln Pro
 1 5 10 15

His Leu Gly Leu Gln Met Leu Leu Leu Ala Leu Asn Trp Leu Arg Pro
 20 25 30
 Ser Leu Ser Leu Glu Leu Val Pro Tyr Thr Pro Gln Ile Thr Ala Trp
 35 40 45
 Asp Leu Glu Gly Lys Val Thr Ala Thr Thr Phe Ser Leu Glu Gln Pro
 50 55 60
 Arg Cys Val Phe Asp Gly Leu Ala Ser Ala Ser Asp Thr Val Trp Leu
 65 70 75 80
 Val Val Ala Phe Ser Asn Ala Ser Arg Gly Phe Gln Asn Pro Glu Thr
 85 90 95
 Leu Ala Asp Ile Pro Ala Ser Pro Gln Leu Leu Thr Asp Gly His Tyr
 100 105 110
 Met Thr Leu Pro Leu Ser Pro Asp Gln Leu Pro Cys Gly Asp Pro Met
 115 120 125
 Ala Gly Ser Gly Ser Ala Pro
 130 135

<210> 1398

<211> 41

<212> Amino acid

<213> Homo sapiens

<400> 1398

Asn Ser Leu Asn Asn Phe Phe Phe Glu Thr Glu Ser Cys Cys Val Ala
 1 5 10 15
 Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro
 20 25 30
 Pro Gly Phe Lys Arg Phe Ser Cys Leu
 35 40 41

<210> 1399

<211> 151

<212> Amino acid

<213> Homo sapiens

<400> 1399

Lys Ser Leu Pro Leu Gln Lys His Pro Lys Pro Ser Cys Gln Glu Asp
 1 5 10 15
 Gln Gly Leu Gly Arg Gly Ser Leu Ser Gly His Ser Pro Leu Thr Leu
 20 25 30
 Leu Thr Phe Leu Thr Ser Cys Ala Leu Gly Asp Gln Gln Leu Leu Pro
 35 40 45
 Pro Arg Thr Ser Gly Ser Leu Cys Gln Glu Ser Met Ser Glu Gln Ser
 50 55 60
 Cys Gln Met Ser Glu Leu Arg Leu Leu Leu Leu Gly Lys Cys Arg Ser
 65 70 75 80
 Gly Lys Ser Ala Thr Gly Asn Ala Ile Leu Gly Lys His Val Phe Lys
 85 90 95
 Ser Lys Phe Ser Asp Gln Thr Val Ile Lys Met Cys Gln Arg Glu Ser
 100 105 110
 Trp Val Leu Arg Glu Arg Lys Val Val Val Ile Asp Thr Pro Asp Leu
 115 120 125
 Phe Ser Ser Ile Ala Cys Ala Glu Asp Lys Gln Arg Asn Ile Gln His
 130 135 140

Leu Leu Glu Leu Ser Ala Pro
145 150 151

<210> 1400
<211> 324
<212>Amino acid
<213> Homo sapiens

<400> 1400
Phe Val Glu Thr Thr Val Ser Val Gln Ser Ala Glu Ser Ser Asp Ala
1 5 10 15
Leu Ser Trp Ser Arg Leu Pro Arg Ala Leu Ala Ser Val Gly Pro Glu
20 25 30
Glu Ala Arg Ser Gly Ala Pro Val Gly Gly Arg Trp Gln Leu Ser
35 40 45
Asp Arg Val Glu Gly Gly Ser Pro Thr Leu Gly Leu Leu Gly Gly Ser
50 55 60
Pro Ser Ala Gln Pro Gly Thr Gly Asn Val Glu Ala Gly Ile Pro Ser
65 70 75 80
Gly Arg Met Leu Glu Pro Leu Pro Cys Trp Asp Ala Ala Lys Asp Leu
85 90 95
Lys Glu Pro Gln Cys Pro Pro Gly Asp Arg Val Gly Val Gln Pro Gly
100 105 110
Asn Ser Arg Val Trp Gln Gly Thr Met Glu Lys Ala Gly Leu Ala Trp
115 120 125
Thr Arg Gly Thr Gly Val Gln Ser Glu Gly Thr Trp Glu Ser Gln Arg
130 135 140
Gln Asp Ser Asp Ala Leu Pro Ser Pro Glu Leu Leu Pro Gln Asp Gln
145 150 155 160
Asp Lys Pro Phe Leu Arg Lys Ala Cys Ser Pro Ser Asn Ile Pro Ala
165 170 175
Val Ile Ile Thr Asp Met Gly Thr Gln Glu Asp Gly Ala Leu Glu Glu
180 185 190
Thr Gln Gly Ser Pro Arg Gly Asn Leu Pro Leu Arg Lys Leu Ser Ser
195 200 205
Ser Ser Ala Ser Ser Thr Gly Phe Ser Ser Ser Tyr Glu Asp Ser Glu
210 215 220
Glu Asp Ile Ser Ser Asp Pro Glu Arg Thr Leu Asp Pro Asn Ser Ala
225 230 235 240
Phe Leu His Thr Leu Asp Gln Gln Lys Pro Arg Val Val Glu Ser Arg
245 250 255
Ser Val Thr Gln Ala Gly Val Gln Trp His Asp Ile Gly Ser Leu Gln
260 265 270
Pro Leu Pro Pro Trp Ile Gln Ala Ile Leu His Ala Ser Ala Phe Arg
275 280 285
Ile Ala Gly Thr Thr Gly Ala Cys His His Ala Arg Ile Ile Phe Gly
290 295 300
Phe Leu Val Glu Arg Gly Phe His His Val Gly Gln Asp Gly Leu Tyr
305 310 315 320
Leu Leu Ile Leu
324

<210> 1401
<211> 76
<212>Amino acid
<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(76)
 <223> X = any amino acid or stop code

<400> 1401
 Lys Ile Cys Ser Ser Tyr Phe Leu Arg Ile Ile Cys Ile Leu Gln Lys
 1 5 10 15
 Glu Ala Gln Glu Ala Ser Asn Leu Tyr Thr Ser Cys Asp Phe Phe Ser
 20 25 30
 Pro Ala Phe Tyr Phe Val Ile Tyr Arg Leu Tyr Asn Phe Lys Ile His
 35 40 45
 Trp Pro Gly Ala Val Ala His Thr Tyr Ser Pro Ser Thr Leu Gly Gly
 50 55 60
 Arg Gly Arg Trp Val Thr Xaa Gly Arg Glu Phe Met
 65 70 75 76

<210> 1402
 <211> 102
 <212>Amino acid
 <213> Homo sapiens

<400> 1402
 Leu Ile Leu Ser Leu Pro Leu Leu Tyr Gly His Leu Lys Ser Tyr Thr
 1 5 10 15
 Phe Pro Ser Glu His Tyr Leu His Leu Leu Gln Thr Phe Ala Thr Phe
 20 25 30
 Asn Lys Tyr Leu Asn Val Cys Val Leu Ile Phe Ile His His Lys Pro
 35 40 45
 Val Val Pro Ala Ile Gln Gly Thr Asn Val Gly Gly Ser Leu Glu Pro
 50 55 60
 Arg Arg Leu Arg Leu Gln Gln Ala Met Ile Val Pro Leu His Phe Gly
 65 70 75 80
 Leu Gly Asn Arg Val Arg Pro Cys Leu Lys Lys Gln Gln Gln Gln Gln
 85 90 95
 Gln Gln Gln Gln Lys Lys
 100 102

<210> 1403
 <211> 124
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> X = any amino acid or stop code

<400> 1403
 Arg Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile
 1 5 10 15

```

Ile Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Ala
      20      25      30
Gly Val Trp Gly Lys Leu Thr Leu Gly Ser Tyr Ile Ser Leu Ile Ala
      35      40      45
Glu Asn Ser Thr Tyr Ala Pro Tyr Val Leu Ile Val Thr Gly Thr Thr
      50      55      60
Ile Val Ala Tyr Pro Leu Val Xaa Phe Phe Phe Ser Tyr Ser Ser Gly
      65      70      75      80
Phe Ser Tyr Ile Leu Ala Val Arg Leu Ile Ala Gly Ile Ala Leu Val
      85      90      95
Tyr Asn Tyr Ile Pro Arg Ser Ser Ser Arg Ala Leu Val Arg Leu Val
      100      105      110
Val Leu Leu Arg Phe Leu Leu Ser Arg His Pro Ser
      115      120      124

```

<210> 1404

<211> 136

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(136)

<223> X = any amino acid or stop code

<400> 1404

```

Asn Ala Glu His Pro Gly Met Asp Arg His Asp Leu Cys Gln Lys Ala
  1      5      10      15
Lys Leu Ala Glu His Ala Glu Arg Asp Asp Asp Met Ala Ala Cys Met
      20      25      30
Lys Thr Val Thr Asp Gln Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn
      35      40      45
Leu Leu Ser Asp Ala His Thr Asn Ala Val Xaa Ala Arg Arg Ser Ser
      50      55      60
Trp Met Gly Ala Xaa Arg Ile Glu Gln Lys Thr Glu Gly Ala Asp Thr
      65      70      75      80
Gln Gln Gln Met Ala Pro Asp Cys Arg Glu Ile Phe Ala Thr Glu Leu
      85      90      95
Arg Asp Ile Cys Asp Asp Val Leu Ser Leu Leu Glu Lys Leu Leu Ile
      100      105      110
Pro Asn Ala Ser His Ala Xaa Ser Leu Val Tyr Tyr Leu His Met Ile
      115      120      125
Gly Asp Tyr Tyr Arg Tyr Trp Leu
      130      135 136

```

<210> 1405

<211> 110

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(110)

<223> X = any amino acid or stop code

MISSING AT THE TIME OF PUBLICATION

Gly Asn Asp Tyr Ser Leu Gly Leu Thr Pro Thr Gly Val Leu Val Phe
 85 90 95
 Glu Gly Asp Thr Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Arg
 100 105 110
 Leu Asp Phe Lys Lys Asn Lys Leu Thr Leu Val Val Val Glu Asp Asp
 115 120 125
 Asp Gln Gly Lys Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp His
 130 135 140
 Pro Lys Ala Cys Lys His Leu Trp Lys Cys Ala Val Glu His His Ala
 145 150 155 160
 Phe Phe Arg Leu Arg Gly Pro Val Gln Lys Ser Ser His Arg Ser Gly
 165 170 175
 Phe Ile Arg Leu Gly Ser Arg Phe Arg Tyr Ser Gly Lys Thr Glu Tyr
 180 185 190
 Gln Thr Thr Lys Thr Asn Lys Ala Arg Arg Ser Thr Ser Phe Glu Arg
 195 200 205
 Arg Pro Ser Lys Arg Tyr Ser Arg Arg Thr Leu Gln Met Lys Ala Cys
 210 215 220
 Ala Thr Lys Pro Glu Glu Leu Ser Val His Asn Asn Val Ser Thr Gln
 225 230 235 240
 Ser Asn Gly Ser Gln Gln Ala Trp Gly Met Arg Ser Ala Leu Pro Val
 245 250 255
 Ser Pro Ser Ile Ser Ser Ala Pro Val Pro Val Glu Ile Glu Asn Leu
 260 265 270
 Pro Gln Ser Pro Gly Thr Asp Gln His Asp Arg Lys Trp Leu Ser Ala
 275 280 285
 Ala Ser Asp Cys Cys Gln Arg Gly Gly Asn Gln Trp Asn Thr Arg Ala
 290 295 300
 Leu
 305

<210> 1408

<211> 92

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(92)

<223> X = any amino acid or stop code

<400> 1408

Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys
 1 5 10 15
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala
 20 25 30
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys
 35 40 45
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr
 50 55 60
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys
 65 70 75 80
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe
 85 90 92

<210> 1409

<211> 169

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(169)

<223> X = any amino acid or stop code

<400> 1409

```

Ala Glu Gly Leu Gly Ser Trp Ala Val Trp Ala Gly Leu Gly Trp Ala
 1           5           10           15
Gly Arg His Met Glu Ala Gly Gly Ala Thr Gly Ala Leu Gly Val Gly
          20           25           30
Ser Lys Leu Pro Ser Ala Phe Cys Phe Pro Gly Ser Ser Val Ala Met
          35           40           45
Asp Met Phe Gln Lys Val Glu Lys Ile Gly Glu Gly Thr Tyr Gly Val
          50           55           60
Val Tyr Lys Ala Lys Asn Arg Glu Thr Gly Gln Leu Val Ala Leu Lys
          65           70           75           80
Lys Ile Arg Leu Asp Leu Xaa Val Leu Gly Arg Pro Leu Ser Tyr Pro
          85           90           95
Pro Trp Ala Ile Thr Thr Trp Ala Leu Pro Asp Pro Phe Pro Leu Ser
          100          105          110
Trp Ser Pro Arg Leu Thr Pro Leu Gly Ala Ala Gln Gln Pro Leu Pro
          115          120          125
Val Leu Ser Pro Val His Cys Leu Leu Thr Ser Leu Cys Arg Gly Pro
          130          135          140
Asp Cys Gly Val Trp Trp Met Thr Cys Gln Gly Ala Gln Val Ser Ile
          145          150          155          160
Ala Gly Ala Leu Val Ile Leu Trp Gly
          165          169

```

<210> 1410

<211> 146

<212>Amino acid

<213> Homo sapiens

<400> 1410

```

Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr Leu Gln Asn Gly Trp
 1           5           10           15
Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe Arg Ala Gly Asp His
          20           25           30
Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn Pro Val Arg Ala Val
          35           40           45
Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu Gly Asp Pro Gln Asn
          50           55           60
Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg Glu Ser Asp Ala Gly
          65           70           75           80
Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met Lys Trp Asn Tyr Lys
          85           90           95
Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser Gln Asp Leu Leu Ser
          100          105          110
Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr Val Gln Glu Gly Leu
          115          120          125
Cys Val Ser Val Pro Trp Gln Cys Pro Leu Pro Pro Leu Gln Leu Asp
          130          135          140

```

Cys Leu
145 146

<210> 1411
<211> 250
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(250)
<223> X = any amino acid or stop code

<400> 1411
Gln Leu Gln Leu Cys Gln Asn Cys Thr Lys Arg Gly Glu Cys His Cys
1 5 10 15
Val Pro Phe Asp Thr Tyr Ile Lys Thr Lys Lys Glu Lys Lys Arg Leu
20 25 30
Ser Val Leu Pro Pro Thr Arg Leu Met Glu Ala Arg Phe Ser Pro Ile
35 40 45
Asn Gln Ile Leu Pro Trp Cys Arg Gln Asp Leu Ala Ile Ser Ile Ser
50 55 60
Lys Ala Ile Asn Thr Gln Glu Ala Pro Val Lys Glu Lys His Ala Arg
65 70 75 80
Arg Ile Ile Leu Gly Thr His His Glu Lys Gly Ala Phe Thr Phe Trp
85 90 95
Ser Tyr Ala Ile Gly Leu Pro Leu Pro Ser Ser Ser Ile Leu Ser Trp
100 105 110
Lys Phe Cys His Val Leu His Lys Val Leu Arg Asp Gly His Pro Asn
115 120 125
Val Leu His Asp Cys Gln Arg Tyr Arg Ser Asn Ile Arg Glu Ile Gly
130 135 140
Asp Leu Trp Gly His Leu His Asp Arg Tyr Gly Gln Leu Val Asn Val
145 150 155 160
Tyr Thr Lys Leu Leu Thr Lys Ile Ser Phe His Leu Lys His Pro
165 170 175
Gln Phe Pro Ala Gly Leu Glu Val Thr Asp Glu Val Leu Glu Lys Ala
180 185 190
Ala Gly Thr Asp Val Asn Asn Met Xaa Val Thr Leu His Gly Tyr Met
195 200 205
Ala Ser Ser Pro Arg Leu Pro His Ser Phe Leu Pro Arg Leu Thr Pro
210 215 220
Arg Arg Pro His Gly Ala Val Gly Leu Asn Glu Ser Val Ala Leu Leu
225 230 235 240
Val Asp Ala His Ala Pro Arg Asp Arg Gly
245 250

<210> 1412
<211> 169
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(169)
<223> X = any amino acid or stop code

```

<400> 1412
Ala Ala Pro His Arg Met Pro Arg Ala Pro His Phe Met Pro Leu Leu
 1           5           10           15
Leu Leu Leu Leu Leu Leu Ser Leu Pro His Thr Gln Ala Ala Phe Pro
 20           25           30
Gln Asp Pro Leu Pro Leu Leu Ile Ser Asp Leu Gln Gly Thr Ser Pro
 35           40           45
Leu Ser Trp Leu Pro Ser Leu Glu Asp Asp Ala Val Ala Ala Xaa Leu
 50           55           60
Gly Leu Asp Phe Gln Arg Phe Leu Thr Leu Asn Arg Thr Leu Leu Val
 65           70           75           80
Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu Glu Glu
 85           90           95
Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser Gln Asp
100           105           110
Val Glu Asn Cys Ala Val Arg Xaa Lys Leu Thr Leu Asn Arg Thr Leu
115           120           125
Leu Val Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu
130           135           140
Glu Glu Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser
145           150           155           160
Gln Asp Val Glu Asn Cys Ala Val Arg
165           169

```

<210> 1413

<211> 131

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(131)

<223> X = any amino acid or stop code

```

<400> 1413
His Leu Val Pro Lys Thr Arg Gly Arg Gly Thr Pro Ser Gly Asp Gln
 1           5           10           15
Ser Pro Val Leu Thr Leu Thr Pro Xaa Gly Asp Pro Pro Thr Ile Leu
 20           25           30
Gly Pro Gln Thr Asn Gln Pro Lys Glu His Leu Thr Asn Phe Lys Ser
 35           40           45
Gly Lys Arg Ser Phe His Ser Leu Leu Gln Pro Leu Leu Leu Leu Leu
 50           55           60
His Pro Ser Ile Ser Pro Phe Leu Asn Phe Gly Ser Phe Pro Phe Leu
 65           70           75           80
Val Glu Thr Glu Glu Thr Cys Phe Ile His Lys Leu Lys Thr Pro Ala
 85           90           95
Leu Val Thr Pro Asp Ser Leu Pro Leu Val Phe Asn His Cys Gly Asp
100           105           110
Ala Cys Leu Ile Ile His Pro His Phe Arg Asp Val Glu Phe His His
115           120           125
Thr Gly Asn
130 131

```

<210> 1414

<211> 365
 <212>Amino acid
 <213> Homo sapiens

<400> 1414
 Cys Cys Ser Thr Lys Asn Ile Ser Gly Asp Lys Ala Cys Asn Leu Met
 1 5 10 15
 Ile Phe Asp Thr Arg Lys Thr Ala Arg Gln Pro Asn Cys Tyr Leu Phe
 20 25 30
 Phe Cys Pro Asn Glu Glu Ala Cys Pro Leu Lys Pro Ala Lys Gly Leu
 35 40 45
 Met Ser Tyr Arg Ile Ile Thr Asp Phe Pro Ser Leu Thr Arg Asn Leu
 50 55 60
 Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe
 65 70 75 80
 Ser Gln Ala Val Thr Pro Leu Ala His His His Thr Asp Tyr Ser Lys
 85 90 95
 Pro Thr Asp Ile Ser Trp Arg Asp Thr Leu Ser Gln Lys Phe Gly Ser
 100 105 110
 Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln
 115 120 125
 Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser
 130 135 140
 Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu
 145 150 155 160
 Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro
 165 170 175
 Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly
 180 185 190
 Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val
 195 200 205
 Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala
 210 215 220
 Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr
 225 230 235 240
 Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe
 245 250 255
 Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro
 260 265 270
 Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr
 275 280 285
 Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly
 290 295 300
 Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu
 305 310 315 320
 Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val
 325 330 335
 Leu Leu Gly Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser
 340 345 350
 Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile
 355 360 365

<210> 1415
 <211> 148
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(148)
 <223> X = any amino acid or stop code

<400> 1415
 Ile Phe Ala Gly Ser Gly Val Met Arg Leu Lys Ile Ser Leu Leu Lys
 1 5 10 15
 Glu Pro Lys His Gln Glu Leu Val Ser Cys Val Gly Trp Thr Thr Ala
 20 25 30
 Glu Glu Leu Tyr Ser Cys Ser Asp Asp His His Ile Val Lys Trp Asn
 35 40 45
 Leu Leu Thr Ser Glu Thr Thr Gln Ile Val Lys Leu Pro Asp Asp Ile
 50 55 60
 Tyr Pro Ile Asp Phe His Trp Phe Pro Lys Ser Leu Gly Val Lys Lys
 65 70 75 80
 Gln Thr His Ala Glu Ser Phe Val Leu Thr Ser Ser Asp Gly Lys Phe
 85 90 95
 His Leu Ile Ser Lys Leu Gly Arg Val Glu Lys Ser Val Glu Ala His
 100 105 110
 Cys Gly Ala Val Leu Ala Gly Arg Trp Asn Tyr Glu Gly Thr Ala Leu
 115 120 125
 Val Thr Val Gly Glu Asp Gly Gln Ile Xaa Ile Trp Ser Lys Thr Gly
 130 135 140
 Met Leu Ile Ser
 145 148

<210> 1416
 <211> 122
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(122)
 <223> X = any amino acid or stop code

<400> 1416
 Ala Arg Ala Thr Lys Arg His Phe Ile Leu Leu Phe Leu Phe Phe
 1 5 10 15
 Leu Arg Arg Cys Leu Phe Leu Ser Pro Arg Met Glu Cys Asn Gly Ala
 20 25 30
 Ile Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Ser Ser Ser
 35 40 45
 Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr Asp Val Arg His His Ala
 50 55 60
 Gln Leu Ile Leu Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val
 65 70 75 80
 Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Leu Leu Thr Ser
 85 90 95
 Ala Ser Gln Ser Ala Gly Ile Ile Met Gly Ile Ser His Cys Ala Gln
 100 105 110
 Pro Lys Lys Ala Phe Xaa Thr Lys Thr Phe
 115 120 122

<210> 1417

<211> 138
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(138)
 <223> X = any amino acid or stop code

<400> 1417
 Glu Ala Gly Ser Asn Asp Asp Leu Ala Thr Xaa Lys Thr Cys Gly Arg
 1 5 10 15
 Ala Arg Pro Ser Arg Ser Arg Gln Phe Gly Ser Arg Val Trp Asn
 20 25 30
 His Arg Gln Gly Val Arg Ser Ser Pro Gly Glu Gly Ala Gly Ser Arg
 35 40 45
 Ser Pro Cys Arg Arg Arg His Arg Arg Lys His Arg Arg Asn Val Gln
 50 55 60
 Ser Pro Xaa Arg Arg Arg Ser Arg Ser Cys Ser Arg Arg Ser Gly Arg
 65 70 75 80
 Cys Ser Val Ala Leu Leu Gly Ala Cys Pro Val Ala Gly His Ser Arg
 85 90 95
 Gly Lys Val Val Cys Arg Arg Ala His Ala Ile Thr Gln Arg Arg Arg
 100 105 110
 Cys Cys Gly Phe Asp Pro Met Val His Pro Lys Glu His Arg Gly Xaa
 115 120 125
 Arg Glu Arg Ser Arg Lys Trp Ser Arg Ser
 130 135 138

<210> 1418
 <211> 92
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(92)
 <223> X = any amino acid or stop code

<400> 1418
 Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys
 1 5 10 15
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala
 20 25 30
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys
 35 40 45
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr
 50 55 60
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys
 65 70 75 80
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe
 85 90 92

<210> 1419

<211> 44
 <212>Amino acid
 <213> Homo sapiens

<400> 1419
 Leu Thr Val Asn Tyr Val Leu Val Phe Ser Arg Asp Ser Gly Leu Arg
 1 5 10 15
 Ala Ile Glu Asn Leu Met Gln Lys Lys Gly Lys Phe Asp Tyr Ile Leu
 20 25 30
 Leu Glu Thr Thr Gly Leu Ala Asp Pro Gly Lys Lys
 35 40 44

<210> 1420
 <211> 91
 <212>Amino acid
 <213> Homo sapiens

<400> 1420
 His Glu Ala Ala Leu Cys Arg Thr Arg Ala Val Ala Ala Glu Arg His
 1 5 10 15
 Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe Arg Gly Val Gly Thr
 20 25 30
 Glu Ser Gly Ser Glu Ser Gly Ser Lys Ala Lys Glu Pro Arg Thr
 35 40 45
 Pro Ser Ser Ser Tyr Gly Thr Ala Gln Tyr Arg Arg Trp Pro Ile Ala
 50 55 60
 Gln Glu Tyr Lys His Cys Thr Ala His Asn Asp Thr Gly Thr Leu Cys
 65 70 75 80
 Ser Glu Leu Arg Glu Pro Trp Arg Arg Pro Gln
 85 90 91

<210> 1421
 <211> 190
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(190)
 <223> X = any amino acid or stop code

<400> 1421
 Glu Gly Ser Ser Gln Ala Asn Thr Leu Arg Ser Arg Lys Glu Asn Arg
 1 5 10 15
 Asn Asn Leu Leu Ala Cys Leu Glu Ser His Val Leu Arg Xaa Gln Phe
 20 25 30
 Thr Glu Ser His Leu Cys Ser Leu Met Gly Asp Asn Pro Phe Gln Pro
 35 40 45
 Lys Ser Asn Ser Lys Met Ala Glu Leu Phe Met Glu Cys Glu Glu Glu
 50 55 60

Glu Leu Glu Pro Trp Gln Lys Lys Val Lys Glu Val Glu Asp Asp Asp
 65 70 75 80
 Asp Asp Glu Pro Ile Phe Val Gly Glu Ile Ser Ser Ser Lys Pro Ala
 85 90 95
 Ile Ser Asn Ile Leu Asn Arg Val Asn Pro Ser Ser Tyr Ser Arg Gly
 100 105 110
 Leu Lys Asn Gly Ala Leu Ser Arg Gly Ile Thr Ala Ala Phe Lys Pro
 115 120 125
 Thr Ser Gln His Tyr Thr Asn Pro Thr Ser Asn Pro Val Pro Ala Ser
 130 135 140
 Pro Ile Asn Phe His Pro Glu Ser Arg Ser Ser Asp Ser Ser Val Ile
 145 150 155 160
 Gly Gln Pro Phe Ser Lys Pro Val Ser Val Ser Lys Thr Ile Arg Pro
 165 170 175
 Ala Gln Gly Ser Ile Gly Cys Cys Leu Ser Ile Ser Thr Val
 180 185 190

<210> 1422
 <211> 207
 <212> Amino acid
 <213> Homo sapiens

<400> 1422
 Cys Phe Ser Leu Glu Asp Ile Leu Asn Phe Phe Leu Gln Gly Phe Ser
 1 5 10 15
 Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu Thr
 20 25 30
 Ser Arg Phe Ala Asp Gly Leu Pro Phe Asn Tyr Ser Leu Gly Leu
 35 40 45
 Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Glu Arg Leu Trp Asp
 50 55 60
 Val Arg Asp Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr
 65 70 75 80
 Pro Arg Val Val Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu
 85 90 95
 Glu Gly Met Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn
 100 105 110
 His Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His
 115 120 125
 Thr Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp
 130 135 140
 Thr Gly Arg Gln Met Leu Ser Pro Tyr Cys Asp Thr Leu Arg Ser Asn
 145 150 155 160
 Pro Leu Gln Leu Thr Cys Arg Gln Asp Gln Arg Ala Val Ala Val Cys
 165 170 175
 Asn Leu Gln Lys Phe Pro Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe
 180 185 190
 Asp Glu Leu Ser Gly Ile Pro Ala Glu Asp Leu Pro Tyr Tyr Gly
 195 200 205 207

<210> 1423
 <211> 423
 <212> Amino acid
 <213> Homo sapiens

<400> 1423
 Ala Ala Arg Arg Arg Arg Gln Leu Val Ser Arg Arg Arg Thr Ala Glu
 1 5 10 15
 Tyr Pro Arg Arg Arg Arg Ser Ser Pro Ser Ala Arg Pro Pro Asp Val
 20 25 30
 Pro Gly Gln Gln Pro Lys Ala Ala Lys Ser Pro Ser Pro Val Gln Gly
 35 40 45
 Lys Lys Ser Pro Arg Leu Leu Cys Ile Glu Lys Val Thr Thr Asp Lys
 50 55 60
 Asp Pro Lys Glu Glu Lys Glu Glu Asp Asp Ser Ala Leu Pro Gln
 65 70 75 80
 Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp Arg Ser Ser
 85 90 95
 Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr Arg Ser Ser
 100 105 110
 Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser Glu Pro Asn
 115 120 125
 Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln Ser Pro Gly
 130 135 140
 Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Glu Met Leu Ile
 145 150 155 160
 Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp Glu Thr Tyr
 165 170 175
 Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg Lys Ser Gly
 180 185 190
 Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val Glu Val Glu
 195 200 205
 Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp Glu Glu Pro
 210 215 220
 Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser Pro Arg Leu
 225 230 235 240
 Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg Cys Glu Met
 245 250 255
 Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu Gln His His
 260 265 270
 Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys Pro His Pro
 275 280 285
 Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu Arg His Ala
 290 295 300
 Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr Cys Ala Arg
 305 310 315 320
 Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met Ile His Thr
 325 330 335
 Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr Cys Arg Gln
 340 345 350
 Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala Asp Ser Phe
 355 360 365
 Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu Lys Lys Asp
 370 375 380
 Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val Leu Ile Ala
 385 390 395 400
 Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser Thr Asp Ile
 405 410 415
 Leu Gly Thr Asn Pro Glu Ser
 420 423

<210> 1424

<211> 158

<212> Amino acid

<213> Homo sapiens

<400> 1424

```

Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu Ser Gln Gln
 1           5           10           15
Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu Ser Glu
          20           25           30
Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Gln Lys Leu Leu Glu
          35           40           45
Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Glu Arg
          50           55           60
Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly
          65           70           75           80
Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
          85           90           95
Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Lys Ser
          100          105          110
Lys Lys Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile
          115          120          125
His Arg Glu Val Ala Phe Asn Lys Thr Ala Gln Val Leu Ser Lys Trp
          130          135          140
Asp Pro Val Val Leu Lys Asn Arg Gln Ala Glu Gln Leu *
145           150           155           157

```

<210> 1425

<211> 286

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(286)

<223> X = any amino acid or stop code

<400> 1425

```

Arg Ile Asp Phe Met Phe His Ser Ser Ala Met Val Asn Ser His Arg
 1           5           10           15
Lys Pro Met Phe Asn Ile His Arg Gly Phe Tyr Cys Leu Thr Ala Ile
          20           25           30
Leu Pro Gln Ile Cys Ile Cys Ser Gln Phe Ser Val Pro Ser Ser Tyr
          35           40           45
His Phe Thr Glu Asp Pro Gly Ala Phe Pro Val Ala Thr Asn Gly Glu
          50           55           60
Arg Phe Pro Trp Gln Glu Leu Arg Leu Pro Ser Val Val Ile Pro Leu
          65           70           75           80
His Tyr Asp Leu Phe Val His Pro Asn Leu Thr Ser Leu Asp Phe Val
          85           90           95
Ala Ser Glu Lys Ile Glu Val Leu Val Ser Asn Ala Thr Gln Leu Ile
          100          105          110
Ile Leu His Ser Lys Asp Leu Glu Ile Thr Asn Ala Thr Leu Gln Ser
          115          120          125
Glu Glu Asp Ser Arg Tyr Met Lys Pro Gly Lys Glu Leu Lys Val Leu
          130          135          140
Ser Tyr Pro Ala His Glu Gln Ile Ala Leu Leu Val Pro Glu Lys Leu
145           150           155           160
Thr Pro His Leu Lys Tyr Tyr Val Ala Met Asp Phe Gln Ala Lys Leu
          165          170          175
Gly Asp Gly Phe Glu Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Leu Gly

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<210> 1426
<211> 224
<212>Amino acid
<213> Homo sapiens
```

```
<210> 1427
<211> 133
<212> Amino acid
<213> Homo sapiens
```

<400> 1427

```

Arg Leu Gln Asn Ser Ser Leu Met Asp Pro Lys Leu Gly Arg Met Ala
 1              5              10              15
Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Leu Glu Arg Gly Met
              20              25              30
Phe Ser Ser Pro Ser Pro Pro Pro Ala Leu Leu Glu Lys Val Phe Gln
              35              40              45
Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys Glu Trp
              50              55              60
Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe Arg Gln
              65              70              75              80
Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln Arg Leu
              85              90              95
Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu Pro Asp
              100              105              110
Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu Gly Ser
              115              120              125
Asp Pro Thr Lys Gly
              130              133

```

<210> 1428

<211> 38

<212>Amino acid

<213> Homo sapiens

<400> 1428

```

Phe Phe Phe Phe Glu Met Glu Ser Cys Ser Val Thr Gln Ala Gly Val
 1              5              10              15
Pro Trp His Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Arg Phe Lys
              20              25              30
Arg Phe Ser Cys Leu Ser
              35              38

```

<210> 1429

<211> 145

<212>Amino acid

<213> Homo sapiens

<400> 1429

```

Asp Pro Lys Ala Gln Leu Pro Glu Pro Leu Arg Val Leu Trp Thr Ala
 1              5              10              15
His Leu Val Ala Met Ala Pro Gly Ser Arg Thr Ser Leu Leu Ala
              20              25              30
Phe Ala Leu Leu Cys Leu Pro Trp Leu Gln Glu Ala Gly Ala Val Gln
              35              40              45
Thr Val Pro Leu Ser Arg Leu Phe Asp His Ala Met Leu Gln Ala His
              50              55              60
Arg Ala His Gln Leu Ala Ile Asp Thr Tyr Gln Glu Phe Glu Glu Thr
              65              70              75              80
Tyr Ile Pro Lys Asp Gln Lys Tyr Ser Phe Leu His Asp Ser Gln Thr
              85              90              95
Ser Phe Cys Phe Ser Asp Ser Ile Pro Thr Pro Ser Asn Met Glu Glu

```

```

      100      105      110
Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu
      115      120      125
Ile Glu Ser Trp Leu Glu Pro Val Arg Ile Leu Met Ser Ile Val Pro
      130      135      140
Asn
145

```

```

<210> 1430
<211> 453
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1430
Phe Val Lys Leu Ile Lys Lys His Gln Ala Ala Met Glu Lys Glu Ala
  1           5           10           15
Lys Val Met Ser Asn Glu Glu Lys Lys Phe Gln Gln His Ile Gln Ala
      20           25           30
Gln Gln Lys Lys Glu Leu Asn Ser Phe Leu Glu Ser Gln Lys Arg Glu
      35           40           45
Tyr Lys Leu Arg Lys Glu Gln Leu Lys Glu Glu Leu Asn Glu Asn Gln
      50           55           60
Ser Thr Pro Lys Lys Glu Lys Gln Glu Trp Leu Ser Lys Gln Lys Glu
      65           70           75           80
Asn Ile Gln His Phe Gln Ala Glu Glu Glu Ala Asn Leu Leu Arg Arg
      85           90           95
Gln Arg Gln Tyr Leu Glu Leu Glu Cys Arg Arg Phe Lys Arg Arg Met
      100          105          110
Leu Leu Gly Arg His Asn Leu Glu Gln Asp Leu Val Arg Glu Glu Leu
      115          120          125
Asn Lys Arg Gln Thr Gln Lys Asp Leu Glu His Ala Met Leu Leu Arg
      130          135          140
Gln His Glu Ser Met Gln Glu Leu Glu Phe Arg His Leu Asn Thr Ile
      145          150          155          160
Gln Lys Met Arg Cys Glu Leu Ile Arg Leu Gln His Gln Thr Glu Leu
      165          170          175
Thr Asn Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg Glu Leu Arg Arg
      180          185          190
Lys His Val Met Glu Val Arg Gln Gln Pro Lys Ser Leu Lys Ser Lys
      195          200          205
Glu Leu Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys Lys Ile Gln Thr
      210          215          220
Arg Gln Tyr Lys Ala Leu Arg Asn His Leu Leu Glu Thr Thr Pro Lys
      225          230          235          240
Ser Glu His Lys Ala Val Leu Lys Arg Leu Lys Glu Glu Gln Thr Arg
      245          250          255
Lys Leu Ala Ile Leu Ala Glu Gln Tyr Asp His Ser Ile Asn Glu Met
      260          265          270
Leu Ser Thr Gln Ala Leu Arg Leu Asp Glu Ala Gln Glu Ala Glu Cys
      275          280          285
Gln Val Leu Lys Met Gln Leu Gln Gln Glu Leu Glu Leu Asn Ala
      290          295          300
Tyr Gln Ser Lys Ile Lys Met Gln Ala Glu Ala Gln His Asp Arg Glu
      305          310          315          320
Leu Arg Glu Leu Glu Gln Arg Val Ser Leu Arg Arg Ala Leu Leu Glu
      325          330          335
Gln Lys Ile Glu Glu Glu Met Leu Ala Leu Gln Asn Glu Arg Thr Glu
      340          345          350
Arg Ile Arg Ser Leu Leu Glu Arg Gln Ala Arg Glu Ile Glu Ala Phe

```

```

      355              360              365
Asp Ser Glu Ser Met Arg Leu Gly Phe Ser Asn Met Val Leu Ser Asn
  370              375              380
Leu Ser Pro Glu Ala Phe Ser His Ser Tyr Pro Gly Ala Ser Gly Trp
 385              390              395              400
Ser His Asn Pro Thr Gly Gly Pro Gly Pro His Trp Gly His Pro Met
      405              410              415
Gly Gly Pro Pro Gln Ala Trp Gly His Pro Met Gln Gly Gly Pro Gln
      420              425              430
Pro Trp Gly His Pro Ser Gly Pro Met Gln Gly Val Pro Arg Gly Ser
      435              440              445
Ser Met Gly Val Arg
      450              453

```

<210> 1431
 <211> 151
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1431
Leu Ala His Gly Ser Phe Gly Val Ser Asp Phe Pro Ala Pro Ala Ala
  1              5              10              15
Ala Pro Ala His Thr Leu Thr Ser Phe Ser Gly Ser Leu Ser Pro Gln
      20              25              30
Phe Arg Lys Pro Leu Gly Arg Ala Pro Ala Met Pro Leu Val Arg Tyr
      35              40              45
Arg Lys Val Val Ile Leu Gly Tyr Arg Cys Val Gly Lys Thr Ser Leu
      50              55              60
Ala His Gln Phe Val Glu Gly Glu Phe Ser Glu Gly Tyr Asp Pro Thr
      65              70              75              80
Val Glu Asn Thr Tyr Ser Lys Ile Val Thr Leu Gly Lys Asp Glu Phe
      85              90              95
His Leu His Leu Val Asp Thr Ala Gly Gln Asp Glu Tyr Ser Ile Leu
      100              105              110
Pro Tyr Ser Phe Ile Ile Gly Val His Gly Tyr Val Leu Val Tyr Ser
      115              120              125
Val Thr Ser Leu His Ser Phe Gln Val Ile Glu Ser Leu Tyr Gln Lys
      130              135              140
Leu His Glu Gly His Gly Lys
      145              150 151

```

<210> 1432
 <211> 514
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1432
Ser Ser Pro Ser Arg Glu Leu Cys Phe Tyr Gly Phe Trp Ile Ala Ser
  1              5              10              15
Ser Trp Trp Ser Arg Trp Val Gly Ser Leu Gly Pro Gly Ile Leu Pro
      20              25              30
Ser Pro Pro Ala Arg Gly Arg Thr Phe Ala Ser Val Ser Arg Leu Pro
      35              40              45
Pro Pro Trp Ser Ala Gly Ile Thr Leu Thr Pro Phe Leu Ile Cys Gln

```


50	55	60
Ser Gly Ser Val Cys Pro Gly Leu Gly Ala Gly Phe Gly Val Arg Ser		
65	70	75
Phe His His Pro Val Ala Arg Ser Ala Val Leu Leu Pro Leu Ala		
85	90	95
Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser Thr Pro Gly Ser Pro		
100	105	110
Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala Leu Leu Thr Pro Thr		
115	120	125
Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala Thr His Gly Cys Arg		
130	135	140
Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu Asn His Gly Leu Val		
145	150	155
Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr Ala Ser Trp Phe Glu		
165	170	175
Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser Asn His Val Tyr Tyr		
180	185	190
Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser Ile Leu Ser Pro Asn		
195	200	205
Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val Ser Pro Thr Thr Met		
210	215	220
Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr Glu Arg Gln Thr Phe		
225	230	235
Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val Glu Glu Leu Leu Gln		
245	250	255
Ser Ser Leu Ser Leu Gly Gly Gln Glu Gln Ala Pro Glu His Lys Gln		
260	265	270
Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr Gln Glu His Lys Gln		
275	280	285
Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu Glu Gln Glu Glu Glu		
290	295	300
Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu Gly Arg Glu Ala Val		
305	310	315
Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe His Ser Glu Ser Leu		
325	330	335
Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val Arg Glu Val Glu Ser		
340	345	350
Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu Ile Arg Ser Ala Gln		
355	360	365
Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu Asn Ser Tyr Trp Arg		
370	375	380
Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro His Thr Glu Ala Leu		
385	390	395
Leu Val Leu Cys Tyr Ser Ile Val Glu Asn Thr Cys Ile Ile Thr Pro		
405	410	415
Thr Ala Lys Ala Trp Lys Tyr Met Glu Glu Glu Ile Leu Gly Phe Gly		
420	425	430
Lys Ser Val Cys Asp Ser Leu Gly Arg Arg His Met Ser Thr Cys Ala		
435	440	445
Leu Cys Asp Phe Cys Ser Leu Lys Leu Glu Gln Cys His Ser Glu Ala		
450	455	460
Ser Leu Gln Arg Gln Gln Cys Asp Thr Ser His Lys Thr Pro Phe Val		
465	470	475
Ser Pro Leu Leu Ala Ser Gln Ser Leu Ser Ile Gly Asn Gln Val Gly		
485	490	495
Ser Pro Glu Ser Gly Arg Phe Tyr Gly Leu Asp Leu Tyr Gly Gly Leu		
500	505	510
His Met		
514		

<210> 1433

<211> 241

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(241)

<223> X = any amino acid or stop code

<400> 1433

```

Val Ser Trp Val Pro Ser Lys Asp Gly Asp Val Glu Gly Ala Arg Arg
 1           5           10           15
Pro Phe Thr Arg Leu Asn Thr Ser Leu Gly Pro Gly Leu Gln Glu Gly
 20           25           30
Arg Arg Arg Thr Trp Leu Val Pro Ile Pro Gly Ala Val Leu Pro Gly
 35           40           45
Arg Thr Gln Glu Gln Pro Arg Ala Ser Pro Leu Tyr Xaa Pro Gly Ala
 50           55           60
Pro Pro Cys Gln Pro Gln Gly Leu Val Ala Gly Pro Trp Ala Gln Xaa
 65           70           75           80
Ala Gly Leu Arg Ser Asp Gly Phe Gly Pro Trp Pro Trp Arg Leu Val
 85           90           95
Gly Thr Ala Gly Pro Arg Glu Lys Lys Val Gln Lys Ser Lys Cys Trp
100           105           110
His Phe Arg Cys Gly Arg His Pro Ala Arg Arg Ser Gly Trp Ala Gly
115           120           125
Arg His Ala Ser Leu Leu Ala Thr Gly Arg Pro Cys Ser Ser Ala Pro
130           135           140
Ser Gln Gln Pro Leu Gly Thr Ala Gly Asp Ser Arg Gln Glu Leu Leu
145           150           155           160
Arg Pro Pro Leu Val Xaa Val Asn Gly Ala Gln Ser Ser Ala Ala Gly
165           170           175
Asp Trp Gly Ser Ser Pro Arg Thr Ala Gln Ala Leu Ala Arg Pro His
180           185           190
Arg Leu Gly His His Pro Ala Ala Val Ala Pro Ala Ala Arg Leu Arg
195           200           205
Thr Gln Ser Gly His Ser Pro Arg Gly Pro Leu Cys Arg Ser Pro Gly
210           215           220
Ser Pro Arg Arg Met Gly Thr Trp Arg Gly Pro Ala Gly His Ser His
225           230           235           240
Asp
241

```

<210> 1434

<211> 127

<212>Amino acid

<213> Homo sapiens

<400> 1434

```

Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe
 1           5           10           15
Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr
 20           25           30
Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly
 35           40           45
Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser
 50           55           60

```

Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala
 65 70 75 80
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln
 85 90 95
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro
 100 105 110
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe
 115 120 125 127

<210> 1435
 <211> 182
 <212> Amino acid
 <213> Homo sapiens

<400> 1435
 Gly Glu Cys Phe Ile Met Ala Ala Val Val Gln Gln Asn Asp Leu Val
 1 5 10 15
 Phe Glu Phe Ala Ser Asn Val Met Glu Asp Glu Arg Gln Leu Gly Asp
 20 25 30
 Pro Ala Ile Phe Pro Ala Val Ile Val Glu His Val Pro Gly Ala Asp
 35 40 45
 Ile Leu Asn Ser Tyr Ala Gly Leu Ala Cys Val Glu Glu Pro Asn Asp
 50 55 60
 Met Ile Thr Glu Ser Ser Leu Asp Val Ala Glu Glu Glu Ile Ile Asp
 65 70 75 80
 Asp Asp Asp Asp Ile Thr Leu Thr Val Glu Ala Ser Cys His Asp
 85 90 95
 Gly Asp Glu Thr Ile Glu Thr Ile Glu Ala Ala Glu Ala Leu Leu Asn
 100 105 110
 Met Asp Ser Pro Gly Pro Met Leu Asp Glu Lys Arg Ile Asn Asn Asn
 115 120 125
 Ile Phe Ser Ser Pro Glu Asp Asp Met Val Val Ala Pro Val Thr His
 130 135 140
 Val Ser Val Thr Leu Asp Gly Ile Pro Glu Val Met Glu Thr Gln Gln
 145 150 155 160
 Val Gln Glu Lys Tyr Ala Asp Ser Pro Gly Ala Ser Ser Pro Glu Gln
 165 170 175
 Pro Lys Arg Lys Lys Lys
 180 182

<210> 1436
 <211> 154
 <212> Amino acid
 <213> Homo sapiens

<400> 1436
 His Glu Ala Ser Gly Val Ser Arg Ala Leu Leu Gln Ser Ala Pro Gly
 1 5 10 15
 Thr Pro Ala Thr Val Gly Ile Ser Val Gly Glu Leu Trp Pro Phe Ala
 20 25 30
 Arg Cys Cys Ser His Ser Tyr Val Arg Ser Leu Arg Gly Leu Ser Val
 35 40 45
 Ser Thr His Leu Leu Cys Phe Thr Ile Tyr Ile Met Asn Pro Ser Met
 50 55 60

```

Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile Lys Thr Ser Ser Val
65          70          75          80
Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser Ala Ser Gly Ser Leu
85          90          95
Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu Ser Lys Arg Lys His
100         105         110
Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser Pro Gly Val Ile Val
115         120         125
Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly Val Thr Gln Glu Ser
130         135         140
Phe Asp Leu Met Ile Lys Gly Met Lys Lys
145         150         154

```

```

<210> 1437
<211> 63
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1437
Pro Leu Pro Ala Arg Gly Lys Ser Thr Leu Pro Ala Thr Phe Cys Ser
1          5          10          15
Pro Ser Ala Pro Glu Leu Ala Ser Met Ser Val Val Pro Pro Asn Arg
20         25         30
Ser Gln Thr Gly Trp Pro Arg Gly Val Thr Gln Phe Gly Asn Lys Tyr
35         40         45
Ile Gln Gln Thr Lys Pro Leu Thr Leu Glu Arg Thr Ile Asn Leu
50         55         60         63

```

```

<210> 1438
<211> 140
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1438
Ala Glu Gly Glu Asp Val Pro Pro Leu Pro Thr Ser Ser Gly Asp Gly
1          5          10          15
Trp Glu Lys Asp Leu Glu Glu Ala Leu Glu Ala Gly Gly Cys Asp Leu
20         25         30
Glu Thr Leu Arg Asn Ile Ile Gln Gly Arg Pro Leu Pro Ala Asp Leu
35         40         45
Arg Ala Lys Val Trp Lys Ile Ala Leu Asn Val Ala Gly Lys Gly Asp
50         55         60
Ser Leu Ala Ser Trp Asp Gly Ile Leu Asp Leu Pro Glu Gln Asn Thr
65         70         75         80
Ile His Lys Asp Cys Leu Gln Phe Ile Asp Gln Leu Ser Val Pro Glu
85         90         95
Glu Lys Ala Ala Glu Leu Leu Leu Asp Ile Glu Ser Val Ile Thr Phe
100        105        110
Tyr Cys Lys Ser Arg Asn Ile Lys Tyr Ser Thr Ser Leu Ser Trp Ile
115        120        125
His Leu Leu Lys Pro Leu Val His Leu Gln Leu Pro
130        135        140

```

<210> 1439
 <211> 84
 <212>Amino acid
 <213> Homo sapiens

<400> 1439
 Ala Leu Pro Lys Phe Leu Thr His Gly Val Lys Ser Asn Glu Arg Val
 1 5 10 15
 Val Val Trp Leu Phe Pro Pro Ser Phe Arg Ala Ala Thr Met Val His
 20 25 30
 Met Asn Val Leu Pro Asp Ala Leu Lys Ser Ile Asn Asn Ala Glu Arg
 35 40 45
 Arg Gly Lys Pro Gln Val Leu Ile Arg Leu Cys Ser Lys Ile Ile Ile
 50 55 60
 Trp Phe Leu Thr Val Met Val Lys Tyr Gly Tyr Ile Gly Lys Phe Glu
 65 70 75 80
 Pro Thr Arg Pro
 84

<210> 1440
 <211> 255
 <212>Amino acid
 <213> Homo sapiens

<400> 1440
 Ala Met Ala Gln Tyr Gly His Pro Ser Pro Leu Gly Met Ala Ala Arg
 1 5 10 15
 Glu Glu Leu Tyr Ser Lys Val Thr Pro Arg Arg Asn Arg Gln Gln Arg
 20 25 30
 Pro Gly Thr Ile Lys His Gly Ser Ala Leu Asp Val Leu Leu Ser Met
 35 40 45
 Gly Phe Pro Arg Ala Arg Ala Gln Lys Ala Leu Ala Ser Thr Gly Gly
 50 55 60
 Arg Ser Val Gln Ala Ala Cys Asp Trp Leu Phe Ser His Val Gly Asp
 65 70 75 80
 Pro Phe Leu Asp Asp Pro Leu Pro Arg Glu Tyr Val Leu Tyr Leu Arg
 85 90 95
 Pro Thr Gly Pro Leu Ala Gln Lys Leu Ser Asp Phe Trp Gln Gln Ser
 100 105 110
 Lys Gln Ile Cys Gly Lys Asn Lys Ala His Asn Ile Phe Pro His Ile
 115 120 125
 Thr Leu Cys Gln Phe Phe Met Cys Glu Asp Ser Lys Val Asp Ala Leu
 130 135 140
 Gly Glu Ala Leu Gln Thr Val Ser Arg Trp Lys Cys Lys Phe Ser
 145 150 155 160
 Ala Pro Leu Pro Leu Glu Leu Tyr Thr Ser Ser Asn Phe Ile Gly Leu
 165 170 175
 Phe Val Lys Glu Asp Ser Ala Glu Val Leu Lys Lys Phe Ala Ala Asp
 180 185 190
 Phe Ala Ala Glu Ala Ala Ser Lys Thr Glu Val His Val Glu Pro His
 195 200 205
 Lys Lys Gln Leu His Val Thr Leu Ala Tyr His Phe Gln Ala Ser His
 210 215 220
 Leu Pro Thr Leu Glu Lys Leu Ala Gln Asn Ile Asp Val Lys Leu Gly
 225 230 235 240

Cys Asp Trp Val Ala Thr Ile Phe Ser Arg Asp Ile Arg Phe Ala
 245 250 255

<210> 1441
 <211> 134
 <212>Amino acid
 <213> Homo sapiens

<400> 1441
 Gln Thr Arg Pro Ala Ser Pro Arg Thr Ala Arg Glu Ser Val Leu Gly
 1 5 10 15
 Val Ser Gln Asn Met Ser Phe Asn Leu Gln Ser Ser Lys Lys Leu Phe
 20 25 30
 Ile Phe Leu Gly Lys Ser Leu Phe Ser Leu Leu Glu Ala Met Ile Phe
 35 40 45
 Ala Leu Leu Pro Lys Pro Arg Lys Asn Val Ala Gly Glu Ile Val Leu
 50 55 60
 Ile Thr Gly Ala Gly Ser Gly Leu Gly Arg Leu Leu Ala Leu Gln Phe
 65 70 75 80
 Ala Arg Leu Gly Ser Val Leu Val Leu Trp Asp Ile Asn Lys Glu Gly
 85 90 95
 Asn Glu Glu Thr Cys Lys Met Ala Arg Glu Ala Gly Ala Thr Arg Val
 100 105 110
 His Ala Tyr Thr Cys Asp Cys Ser Gln Lys Glu Gly Val Tyr Arg Val
 115 120 125
 Ala Asp Gln Val Lys Lys
 130 134

<210> 1442
 <211> 155
 <212>Amino acid
 <213> Homo sapiens

<400> 1442
 Met Val Ala Arg Lys Gly Gln Lys Ser Pro Arg Phe Arg Arg Val Thr
 1 5 10 15
 Cys Phe Leu Arg Leu Gly Arg Ser Thr Leu Leu Glu Leu Glu Pro Ala
 20 25 30
 Gly Arg Pro Cys Ser Gly Arg Thr Arg His Arg Ala Leu His Arg Arg
 35 40 45
 Leu Val Ala Cys Val Thr Val Ser Ser Arg Arg His Arg Lys Glu Ala
 50 55 60
 Gly Arg Gly Arg Ala Glu Ser Phe Ile Ala Val Gly Met Ala Ala Pro
 65 70 75 80
 Ser Met Lys Glu Arg Gln Val Cys Trp Gly Ala Arg Asp Glu Tyr Trp
 85 90 95
 Lys Cys Leu Asp Glu Asn Leu Glu Asp Ala Ser Gln Cys Lys Lys Leu
 100 105 110
 Arg Ser Ser Phe Glu Ser Ser Cys Pro Gln Gln Trp Ile Lys Tyr Phe
 115 120 125
 Asp Lys Arg Arg Asp Tyr Leu Lys Phe Lys Glu Lys Phe Glu Ala Gly
 130 135 140
 Gln Phe Glu Pro Ser Glu Thr Thr Ala Lys Ser
 145 150 155

<210> 1443
 <211> 157
 <212>Amino acid
 <213> Homo sapiens

<400> 1443
 Pro Ala Pro Ala Ala Arg Ser Arg Glu Leu Leu Lys Glu Leu Arg Asn
 1 5 10 15
 Gly Gln Asp Met Asp Thr Val Val Phe Glu Asp Val Val Val Asp Phe
 20 25 30
 Thr Leu Glu Glu Trp Ala Leu Leu Asn Pro Ala Gln Arg Lys Leu Tyr
 35 40 45
 Arg Asp Val Met Leu Glu Thr Phe Lys His Leu Ala Ser Val Asp Asn
 50 55 60
 Glu Ala Gln Leu Lys Ala Ser Gly Ser Ile Ser Gln Gln Asp Thr Ser
 65 70 75 80
 Gly Glu Lys Leu Ser Leu Lys Gln Lys Ile Glu Lys Phe Thr Arg Lys
 85 90 95
 Asn Ile Trp Ala Ser Leu Leu Gly Lys Asn Trp Glu Glu His Ser Val
 100 105 110
 Lys Asp Lys His Asn Thr Lys Glu Arg His Leu Ser Arg Asn Pro Arg
 115 120 125
 Val Glu Arg Pro Cys Lys Ser Ser Lys Gly Asn Lys Arg Gly Arg Thr
 130 135 140
 Phe Arg Lys Thr Arg Asn Cys Asn Arg His Leu Arg Arg
 145 150 155 157

<210> 1444
 <211> 53
 <212>Amino acid
 <213> Homo sapiens

<400> 1444
 Cys Val Cys Gly Phe Phe Val Cys Phe Glu Thr Lys Ser Cys Phe Val
 1 5 10 15
 Ala Gln Ala Gly Val Gln Trp His Asn Leu Ser Ser Leu Gln Ala Leu
 20 25 30
 Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp
 35 40 45
 His Tyr Arg Arg Val
 50 53

<210> 1445
 <211> 106
 <212>Amino acid
 <213> Homo sapiens

<400> 1445

```

Gly Thr Arg Leu Arg Arg Arg Arg Glu Ala Val Trp Phe Glu Val Val
 1          5          10          15
Asn Met Asp Phe Ser Arg Leu His Met Tyr Ser Pro Pro Gln Cys Val
          20          25          30
Pro Glu Asn Thr Gly Tyr Thr Tyr Ala Leu Ser Ser Ser Tyr Ser Ser
          35          40          45
Asp Ala Leu Asp Phe Glu Thr Glu His Lys Leu Asp Pro Val Phe Asp
          50          55          60
Ser Pro Arg Met Ser Arg Arg Ser Leu Arg Leu Ala Thr Thr Ala Cys
65          70          75          80
Thr Leu Gly Asp Gly Glu Ala Val Gly Ala Asp Ser Gly Thr Ser Ser
          85          90          95
Ala Val Ser Leu Lys Asn Arg Ala Ala Arg
          100          105 106

```

<210> 1446

<211> 95

<212>Amino acid

<213> Homo sapiens

<400> 1446

```

Asp Thr Met Gln Ala Val Val Pro Leu Asn Lys Met Thr Ala Ile Ser
 1          5          10          15
Pro Glu Pro Gln Thr Leu Ala Ser Thr Glu Gln Asn Glu Val Pro Arg
          20          25          30
Val Val Thr Ser Gly Glu Gln Glu Ala Ile Leu Arg Gly Asn Ala Ala
          35          40          45
Asp Ala Glu Ser Phe Arg Gln Arg Phe Arg Trp Phe Cys Tyr Ser Glu
          50          55          60
Val Ala Gly Pro Arg Lys Ala Leu Ser Gln Leu Trp Glu Leu Cys Asn
65          70          75          80
Gln Trp Leu Arg Pro Asp Ile His Thr Lys Glu Gln Ile Leu Glu
          85          90          95

```

<210> 1447

<211> 127

<212>Amino acid

<213> Homo sapiens

<400> 1447

```

Pro Ile Cys Leu Phe Ser Arg Pro Thr Leu Arg Pro Ser Arg Ser Lys
 1          5          10          15
Val Ser Leu Ile Glu Gly Arg Gly Ala Asn Met Ala Ala Arg Trp Arg
          20          25          30
Phe Trp Cys Val Ser Val Thr Met Val Val Ala Leu Leu Ile Val Cys
          35          40          45
Asp Val Pro Ser Ala Ser Ala Gln Arg Lys Lys Glu Met Val Leu Ser
          50          55          60
Glu Lys Val Ser Gln Leu Met Glu Trp Thr Asn Lys Arg Pro Val Ile
65          70          75          80
Arg Met Asn Gly Asp Lys Phe Arg Arg Leu Val Lys Ala Pro Pro Arg
          85          90          95
Asn Tyr Ser Val Ile Val Met Phe Thr Ala Leu Gln Leu His Arg Gln
          100          105          110

```


Cys Val Val Cys Lys Tyr Glu Leu Gln Leu Arg Phe Lys Ile Lys
 115 120 125 127

<210> 1448
 <211> 143
 <212>Amino acid
 <213> Homo sapiens

<400> 1448
 Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys
 1 5 10 15
 Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp
 20 25 30
 Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val
 35 40 45
 Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser
 50 55 60
 Glu Cys Leu Lys Glu Arg Arg Phe Tyr Asp Gly Gln Leu Val Leu Thr
 65 70 75 80
 Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys
 85 90 95
 Asn Ser Glu Ser Gln His Ser Leu Lys His Phe Lys Ser Ser Arg Thr
 100 105 110
 Glu Pro His Cys Ile Ile Ile Asn Leu Ser Thr Trp Ile Ile Trp Trp
 115 120 125
 Tyr Glu Trp Asp Glu Lys Ile Phe Thr Pro Leu Asn Lys Lys Gly
 130 135 140 143

<210> 1449
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> X = any amino acid or stop code

<400> 1449
 Ala Lys Glu Arg Gly Glu Glu Arg Gln Gly Glu Gly Gly Gly Trp Leu
 1 5 10 15
 Ser Gly Ser Arg Trp Pro Leu Val Arg Ser Ala Phe Val Pro Ala Pro
 20 25 30
 Ser Ser Leu Ile Leu Ser Met Cys Leu Ser Pro Gly Ile Pro Glu Ala
 35 40 45
 Ala Pro Asp Ser Pro Leu Thr Ala Ser Ala Pro Thr Pro Xaa Val Met
 50 55 60
 Leu Leu Gly Asp Thr Gly Val Gly Lys Thr Cys Phe Leu Ile Gln Phe
 65 70 75 80
 Lys Asp Gly Ala Phe Leu Ser Gly Thr Phe Ile Ala Thr Val Gly Ile
 85 90 95
 Asp Phe Arg Val Arg Trp Leu Gln Ala Leu Ala Ser Ser Arg Glu Pro
 100 105 110
 Gly Leu Trp Leu Arg His Gly Gly Val

115

120 121

<210> 1450
 <211> 76
 <212>Amino acid
 <213> Homo sapiens

<400> 1450
 Phe Tyr Pro Arg Ser Ser Ala Asp Leu Pro Phe Gln Thr Thr Arg Cys
 1 5 10 15
 Glu Phe Gln Thr Ser Val Met Glu Leu Ala His Ser Leu Leu Leu Asn
 20 25 30
 Glu Glu Ala Leu Ala Gln Ile Thr Glu Ala Lys Arg Pro Val Phe Ile
 35 40 45
 Phe Glu Trp Leu Arg Phe Leu Asp Lys Val Leu Val Ala Ala Asn Lys
 50 55 60
 Val Trp Tyr Cys Ser Phe Phe Pro Val Ala Leu Thr
 65 70 75 76

<210> 1451
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<400> 1451
 Met Asn Met Lys Gln Lys Ser Val Tyr Gln Gln Thr Lys Ala Leu Leu
 1 5 10 15
 Cys Lys Asn Phe Leu Lys Lys Trp Arg Met Lys Arg Glu Ser Leu Leu
 20 25 30
 Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala Leu Phe Ser
 35 40 45
 Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala Pro Gln Asn Leu
 50 55 60
 Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu Met Val Val Tyr Thr
 65 70 75 80
 Pro Ile Ser Asn Leu Thr Gln Gln Ile Met Asn Lys Thr Ala Leu
 85 90 95

<210> 1452
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

<400> 1452
 Ser Pro Gln Gly Asn Gly Cys Pro Asp Val Thr Gly Asp Ser Val Ile
 1 5 10 15
 Arg Val Pro Leu Thr Leu Leu Val His Asn Leu Ala Gly Leu Thr Gly
 20 25 30
 Leu Leu His His Cys Leu Ser Gly Pro Leu Pro Ala Pro Ser Pro Pro

```

      35      40      45
Pro Ala Met Ser Ser Ser Arg Lys Asp His Leu Gly Ala Ser Ser Ser
  50      55      60
Glu Pro Leu Pro Val Ile Ile Val Gly Asn Gly Pro Ser Gly Ile Cys
  65      70      75      80
Leu Ser Tyr Leu Leu Ser Gly Tyr Thr Pro Tyr Thr Lys Pro Asp Ala
      85      90      95
Ile His Pro His Pro Leu Leu Gln Arg Lys Leu Thr Glu Ala Pro Gly
      100      105      110
Val Ser Ile Leu Asp Gln Asp Leu Asp Tyr Leu Ser Glu Gly Leu Glu
      115      120      125
Gly Arg Ser Gln Ser Pro Val Ala Leu Leu Phe Asp Ala Leu Leu Arg
      130      135      140
Pro Asp Thr Asp Phe Gly Gly Asn Met Lys Ser Val Leu Thr Trp Lys
      145      150      155      160
His Arg Lys Glu His Ala Ile Pro His Val Val Leu Gly Arg
      165      170      174

```

<210> 1453
 <211> 518
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1453
Asn Arg Arg Thr Arg Ala Gln Arg Cys Gln Arg Gly Arg Ser Cys Gly
  1      5      10      15
Ala Arg Glu Glu Glu Val Glu Pro Gly Thr Ala Arg Pro Pro Ala
      20      25      30
Ala Ser Ala Met Asp Ala Ser Leu Glu Lys Ile Ala Asp Pro Thr Leu
      35      40      45
Ala Glu Met Gly Lys Asn Leu Lys Glu Ala Val Lys Met Leu Glu Asp
      50      55      60
Ser Gln Arg Arg Thr Glu Glu Asn Gly Lys Lys Leu Ile Ser Gly
      65      70      75      80
Asp Ile Pro Gly Pro Leu Gln Gly Ser Gly Gln Asp Met Val Ser Ile
      85      90      95
Leu Gln Leu Val Gln Asn Leu Met His Gly Asp Glu Asp Glu Glu Pro
      100      105      110
Gln Ser Pro Arg Ile Gln Asn Ile Gly Glu Gln Gly His Met Ala Leu
      115      120      125
Leu Gly His Ser Leu Gly Ala Tyr Ile Ser Thr Leu Asp Lys Glu Lys
      130      135      140
Leu Arg Lys Leu Thr Thr Arg Ile Leu Ser Asp Thr Thr Leu Trp Leu
      145      150      155      160
Cys Arg Ile Phe Arg Tyr Glu Asn Gly Cys Ala Tyr Phe His Glu Glu
      165      170      175
Glu Arg Glu Gly Leu Ala Lys Ile Cys Arg Leu Ala Ile His Ser Arg
      180      185      190
Tyr Glu Asp Phe Val Val Asp Gly Phe Asn Val Leu Tyr Asn Lys Lys
      195      200      205
Pro Val Ile Tyr Leu Ser Ala Ala Ala Arg Pro Gly Leu Gly Gln Tyr
      210      215      220
Leu Cys Asn Gln Leu Gly Leu Pro Phe Pro Cys Leu Cys Arg Val Pro
      225      230      235      240
Cys Asn Thr Val Phe Gly Ser Gln His Gln Met Asp Val Ala Phe Leu
      245      250      255
Glu Lys Leu Ile Lys Asp Asp Ile Glu Arg Gly Arg Leu Pro Leu Leu
      260      265      270
Leu Val Ala Asn Ala Gly Thr Ala Ala Val Gly His Thr Asp Lys Ile

```

```

      275              280              285
Gly Arg Leu Lys Glu Leu Cys Glu Gln Tyr Gly Ile Trp Leu His Val
 290              295              300
Glu Gly Val Asn Leu Ala Thr Leu Ala Leu Gly Tyr Val Ser Ser Ser
305              310              315              320
Val Leu Ala Ala Ala Lys Cys Asp Ser Met Thr Met Thr Pro Gly Pro
      325              330              335
Trp Leu Gly Leu Pro Ala Val Pro Ala Val Thr Leu Tyr Lys His Asp
      340              345              350
Asp Pro Ala Leu Thr Leu Val Ala Gly Leu Thr Ser Asn Lys Pro Thr
      355              360              365
Asp Lys Leu Arg Ala Leu Pro Leu Trp Leu Ser Leu Gln Tyr Leu Gly
      370              375              380
Leu Asp Gly Phe Val Glu Arg Ile Lys His Ala Cys Gln Leu Ser Gln
385              390              395              400
Arg Leu Gln Glu Ser Leu Lys Lys Val Asn Tyr Ile Lys Ile Leu Val
      405              410              415
Glu Asp Glu Leu Ser Ser Pro Val Val Phe Arg Phe Phe Gln Glu
      420              425              430
Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro Asn Met
      435              440              445
Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala Leu Asn
      450              455              460
Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser Gly Leu
465              470              475              480
Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe Ser Pro
      485              490              495
Leu Met Thr Ala Ala Gly Lys Pro Gly Leu Val Asp Ile Pro Cys Phe
      500              505              510
Cys Ser Gly Ala Ala Gly
      515              518

```

<210> 1454

<211> 185

<212>Amino acid

<213> Homo sapiens

<400> 1454

```

Leu Cys Ile Met Asp Thr Lys Glu Glu Lys Lys Glu Arg Lys Gln Ser
 1              5              10              15
Tyr Phe Ala Arg Leu Lys Lys Lys Lys Gln Ala Lys Gln Asn Ala Glu
      20              25              30
Thr Ala Ser Ala Val Ala Thr Arg Thr His Thr Gly Lys Glu Asp Asn
      35              40              45
Asn Thr Val Val Leu Glu Pro Asp Lys Cys Asn Ile Ala Val Glu Glu
      50              55              60
Glu Tyr Met Thr Asp Glu Lys Lys Lys Arg Lys Ser Asn Gln Leu Lys
      65              70              75              80
Glu Ile Arg Arg Thr Glu Leu Lys Arg Tyr Tyr Ser Ile Asp Asp Asn
      85              90              95
Gln Asn Lys Thr His Asp Lys Lys Glu Lys Lys Met Val Val Gln Lys
      100              105              110
Pro His Gly Thr Met Glu Tyr Thr Ala Gly Asn Gln Asp Thr Leu Asn
      115              120              125
Ser Ile Ala Leu Lys Phe Asn Ile Thr Pro Asn Lys Leu Val Glu Leu
      130              135              140
Asn Lys Leu Phe Thr His Thr Ile Val Pro Gly Gln Val Leu Phe Val
145              150              155              160
Pro Asp Ala Asn Ser Pro Ser Ser Thr Leu Arg Leu Ser Ser Ser Ser

```

Pro Gly Ala Thr Val Ser Pro Ser Ser
 180 185 175

<210> 1455
 <211> 206
 <212> Amino acid
 <213> Homo sapiens

<400> 1455
 Ser Ala Gly Gly Asp Ser Cys Arg Ala Val Pro Met Leu Arg Phe Pro
 1 5 10 15
 Thr Cys Phe Pro Ser Phe Arg Val Val Gly Glu Lys Gln Leu Pro Gln
 20 25 30
 Glu Ile Ile Phe Leu Val Trp Ser Pro Lys Arg Asp Leu Ile Ala Leu
 35 40 45
 Ala Asn Thr Ala Gly Glu Val Leu Leu His Arg Leu Ala Ser Phe His
 50 55 60
 Arg Val Trp Ser Phe Pro Asn Glu Asn Thr Gly Lys Glu Val Thr
 65 70 75 80
 Cys Leu Ala Trp Arg Pro Asp Gly Lys Leu Leu Ala Phe Ala Leu Ala
 85 90 95
 Asp Thr Lys Lys Ile Val Leu Cys Asp Val Glu Lys Pro Glu Ser Leu
 100 105 110
 His Ser Phe Ser Val Glu Ala Pro Val Ser Cys Met His Trp Met Glu
 115 120 125
 Val Thr Val Glu Ser Ser Val Leu Thr Ser Phe Tyr Asn Ala Glu Asp
 130 135 140
 Glu Ser Asn Leu Leu Leu Pro Lys Leu Pro Thr Leu Pro Lys Asn Tyr
 145 150 155 160
 Ser Asn Thr Ser Lys Ile Phe Ser Glu Glu Asn Ser Asp Glu Ile Ile
 165 170 175
 Lys Leu Leu Gly Asp Val Arg Leu Asn Ile Leu Val Leu Gly Gly Ser
 180 185 190
 Ser Gly Phe Ile Glu Leu Tyr Ala Tyr Gly Met Phe Lys Ile
 195 200 205 206

<210> 1456
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1456
 Pro Arg Asp Pro Val Thr Asp Arg Ala Arg Ala Met Pro Arg Arg Gly
 1 5 10 15
 Leu Val Ala Gly Pro Asp Leu Glu Tyr Phe Gln Arg His Tyr Phe Thr
 20 25 30
 Pro Ala Glu Val Ala Gln His Asn Arg Pro Glu Asp Leu Trp Val Ser
 35 40 45
 Tyr Leu Gly Arg Val Tyr Asp Leu Thr Ser Leu Ala Gln Glu Tyr Lys
 50 55 60
 Gly Asn Leu Leu Leu Lys Pro Ile Val Glu Val Ala Gly Gln Asp Ile
 65 70 75 80
 Ser His Trp Phe Asp Pro Lys Thr Arg Asp Val Ser Tyr Ala Gly Thr

Trp Asp Cys Gly
100

85

90

95

<210> 1457
<211> 159
<212> Amino acid
<213> Homo sapiens

<400> 1457
Arg Ile Pro Gly Arg Arg Phe Arg Ala Ala Phe Val Leu Gly Ser Ala
1 5 10 15
Asn Val Ala Ser Ser Val Arg Leu Arg Cys Ser Phe Pro Leu Ser Leu
20 25 30
Gly Gly Pro Ser Gly Pro Ala Ala Ala Ser Val Ala Leu Gly Pro Ala
35 40 45
Gly Pro Gly Arg Ser Leu Gly Arg Thr Pro Asp Thr Gly Asp Trp Glu
50 55 60
Met Asp Ser Val Ser Phe Glu Asp Val Ala Val Ala Phe Thr Gln Glu
65 70 75 80
Glu Trp Ala Leu Leu Asp Pro Ser Gln Lys Asn Leu Tyr Arg Asp Val
85 90 95
Met Gln Glu Ile Phe Arg Asn Leu Ala Ser Val Gly Asn Lys Ser Glu
100 105 110
Asp Gln Asn Ile Gln Asp Asp Phe Lys Asn Pro Gly Arg Asn Leu Ser
115 120 125
Ser His Val Val Glu Arg Leu Phe Glu Ile Lys Glu Gly Ser Gln Tyr
130 135 140
Gly Glu Thr Phe Ser Gln Asp Ser Asn Leu Asn Leu Asn Lys Ile
145 150 155 159

<210> 1458
<211> 154
<212> Amino acid
<213> Homo sapiens

<400> 1458
Ser Leu Ser Leu Ser Val Ser Pro Phe Leu Arg Leu Ser Leu Gly Arg
1 5 10 15
Val Gly Gly Met Ala Glu Glu Met Glu Ser Ser Leu Glu Ala Ser Phe
20 25 30
Ser Ser Ser Gly Ala Val Ser Gly Ala Ser Gly Phe Leu Pro Pro Ala
35 40 45
Arg Ser Arg Ile Phe Lys Ile Ile Val Ile Gly Asp Ser Asn Val Gly
50 55 60
Lys Thr Cys Leu Thr Tyr Arg Phe Cys Ala Gly Arg Phe Pro Asp Arg
65 70 75 80
Thr Glu Ala Thr Ile Gly Val Asp Phe Arg Glu Arg Ala Val Glu Ile
85 90 95
Asp Gly Glu Arg Ile Lys Ile Gln Leu Trp Asp Thr Ala Gly Gln Glu
100 105 110
Arg Phe Arg Lys Ser Met Val Gln His Tyr Tyr Arg Asn Val His Ala
115 120 125
Val Val Phe Val Tyr Asp Met Thr Asn Met Ala Ser Phe His Ser Leu

130 135 140
 Pro Ser Trp Ile Glu Glu Cys Lys Gln His
 145 150 154

<210> 1459
 <211> 136
 <212> Amino acid
 <213> Homo sapiens

<400> 1459
 Arg Arg Pro Ser Pro Gly Ser Ile Val Ile Met Ala Ala Glu Ser Asp
 1 5 10 15
 Val Leu His Phe Gln Phe Glu Gln Gln Gly Asp Val Val Leu Gln Lys
 20 25 30
 Met Asn Leu Leu Arg Gln Gln Asn Leu Phe Cys Asp Val Ser Ile Tyr
 35 40 45
 Ile Asn Asp Thr Glu Phe Gln Gly His Lys Val Ile Leu Ala Ala Cys
 50 55 60
 Ser Thr Phe Met Arg Asp Gln Phe Leu Leu Thr Gln Ser Lys His Val
 65 70 75 80
 Arg Ile Thr Ile Leu Gln Ser Ala Glu Val Gly Arg Lys Leu Leu Leu
 85 90 95
 Ser Cys Tyr Thr Gly Ala Leu Glu Val Lys Arg Lys Glu Leu Leu Lys
 100 105 110
 Tyr Leu Thr Ala Ala Ser Tyr Leu Gln Met Val His Ile Ala Glu Lys
 115 120 125
 Arg Thr Glu Ala Phe Val Lys Phe
 130 135 136

<210> 1460
 <211> 219
 <212> Amino acid
 <213> Homo sapiens

<400> 1460
 Ala Glu Gly Leu Gln Ser Ala Ala Gly Ile Arg Ile Asp Thr Lys Ala
 1 5 10 15
 Gly Pro Pro Glu Met Leu Lys Pro Leu Trp Lys Ala Ala Val Ala Pro
 20 25 30
 Thr Trp Pro Cys Ser Met Pro Pro Arg Arg Pro Trp Asp Arg Gln Ala
 35 40 45
 Gly Thr Leu Gln Val Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser
 50 55 60
 Val Ala Leu Ile Cys Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp
 65 70 75 80
 Gly Gln Val Gln Pro Lys Asp Val Pro Arg Ser Trp Glu His Gly Ser
 85 90 95
 Ser Pro Ala Trp Glu Pro Leu Glu Ala Glu Ala Arg Gln Gln Arg Asp
 100 105 110
 Ser Cys Gln Leu Val Leu Val Glu Ser Ile Pro Gln Asp Leu Pro Ser
 115 120 125
 Ala Ala Gly Ser Pro Ser Ala Gln Pro Leu Gly Gln Ala Trp Leu Gln
 130 135 140
 Leu Leu Asp Thr Ala Gln Glu Ser Val His Val Ala Ser Tyr Tyr Trp

```

145              150              155              160
Ser Leu Thr Gly Pro Asp Ile Gly Val Asn Asp Ser Ser Ser Gln Leu
              165              170              175
Gly Glu Ala Leu Leu Gln Lys Leu Gln Gln Leu Leu Gly Arg Asn Ile
              180              185              190
Ser Leu Ala Val Ala Thr Ser Ser Pro Thr Leu Ala Arg Thr Ser Thr
              195              200              205
Asp Leu Gln Val Leu Ala Ala Arg Gly Ala His
              210              215              219

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<210> 1461
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1461
Arg Lys Lys Lys Met Pro Leu Pro Phe Gly Leu Lys Leu Lys Arg Thr
 1              5              10              15
Arg Arg Tyr Thr Val Ser Ser Lys Ser Cys Leu Val Ala Arg Ile Gln
              20              25              30
Leu Leu Asn Asn Glu Phe Val Glu Phe Thr Leu Ser Val Glu Ser Thr
              35              40              45
Gly Gln Glu Ser Leu Glu Ala Val Ala Gln Arg Leu Glu Leu Arg Glu
              50              55              60
Val Thr Tyr Phe Ser Leu Trp Tyr Tyr Asn Lys Gln Asn Gln Arg Arg
              65              70              75              80

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<210> 1462
<211> 176
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1462
Leu Gln Pro Leu Ser Ser Trp Glu Ser Ala Ser Glu Val Thr Arg Ser
 1              5              10              15
Pro Val Ser Pro Glu Asp Val Lys Gln Ala Thr Ser Asn Phe Glu Asn
              20              25              30
Leu Gln Lys Gln Leu Ala Arg Lys Met Lys Leu Pro Ile Phe Ile Ala
              35              40              45
Asp Ala Phe Thr Ala Arg Ala Phe Arg Gly Asn Pro Ala Ala Val Cys
              50              55              60
Leu Leu Glu Asn Glu Leu Asp Glu Asp Met His Gln Lys Ile Ala Arg
              65              70              75              80
Glu Met Asn Leu Ser Glu Thr Ala Phe Ile Arg Lys Leu His Pro Thr
              85              90              95
Asp Asn Phe Ala Gln Ser Ser Cys Phe Gly Leu Arg Trp Phe Thr Pro
              100              105              110
Ala Ser Glu Val Pro Leu Cys Gly His Ala Thr Leu Ala Ser Ala Ala
              115              120              125
Val Leu Phe His Lys Ile Lys Asn Met Asn Ser Thr Leu Thr Phe Val
              130              135              140
Thr Leu Ser Gly Glu Leu Arg Ala Arg Arg Ala Glu Asp Gly Ile Val

```



```
<210> 1463
<211> 150
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1464
<211> 86
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1465
<211> 286
<212> Amino acid
```

<213> Homo sapiens

<400> 1465

```

Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro
 1      5      10      15
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala
      20      25      30
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser
      35      40      45
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln
      50      55      60
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val
      65      70      75      80
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu
      85      90      95
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val
      100      105      110
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp
      115      120      125
Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val
      130      135      140
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala
145      150      155      160
Leu Met Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly
      165      170      175
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp
      180      185      190
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln
      195      200      205
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp
      210      215      220
Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val
225      230      235      240
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys
      245      250      255
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln
      260      265      270
Glu Glu Gln Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg
      275      280      285 286

```

<210> 1466

<211> 127

<212>Amino acid

<213> Homo sapiens

<400> 1466

```

Gly Cys Tyr Ala Pro Ser Pro His Leu Gly Gly Ser Leu Thr Pro Arg
 1      5      10      15
Phe Phe Pro Asn Gly Val Phe His Arg Arg Leu Pro Arg Pro Arg Pro
      20      25      30
Pro Gln Pro Pro Ser Val Ser Ser Ala Pro Thr Leu Arg Pro Leu Cys
      35      40      45
Ala His Phe Ser Leu Gly Lys Leu Arg Leu Arg Val Arg Lys Ser Ala
      50      55      60
Glu Val Ala Pro Pro Arg Thr Glu Lys Gly Trp Gly Ser Ala Glu Pro

```

```

65          70          75          80
Arg His Ser Arg Ala Pro Leu Gly Leu Gln Gly Leu Arg Met Ala Ala
      85          90          95
Ser Ala Gln Val Ser Val Thr Phe Glu Asp Val Ala Val Thr Phe Thr
      100        105        110
Gln Glu Glu Trp Gly Gln Leu Asp Ala Ala Gln Arg Thr Leu Tyr
      115        120        125        127

```

<210> 1467
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1467
Phe Arg Gly Ser Leu Ser Ser Pro Ser Ser Leu Arg Gly Arg Arg Leu
 1          5          10          15
Val Thr Gly Gln Thr Ser Pro Arg Gly Thr Trp Cys Leu Tyr Pro Gly
      20          25          30
Phe Cys Arg Ser Val Ala Cys Ala Met Pro Cys Cys Ser His Arg Ser
      35          40          45
Cys Arg Glu Asp Pro Gly Thr Ser Glu Ser Arg Glu Met Asp Pro Val
      50          55          60
Val Phe Glu Asp Val Ala Val Asn Phe Thr Gln Glu Glu Trp Thr Leu
      65          70          75          80
Leu Asp Ile Ser Gln Lys Asn Leu Phe Arg Glu Val Met Leu Glu Thr
      85          90          95
Phe Arg Asn Leu Thr Ser Ile Gly Lys Lys Trp Ser Asp Gln Asn Ile
      100        105        110
Glu Tyr Glu Tyr Gln Asn Pro Arg Arg Ser Phe Arg Ser Leu Ile Glu
      115        120        125
Glu Lys Val Asn Glu Ile Lys Glu Asp Ser His Cys Gly Glu Thr Phe
      130        135        140
Thr Gln
145 146

```

<210> 1468
 <211> 44
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1468
Leu Asn Phe Ala Asn Ser Ala Ala Phe Ala Val Thr Met Pro Gln Asn
 1          5          10          15
Glu Tyr Ile Glu Leu His Arg Lys Arg Tyr Gly Phe Arg Leu Asp Tyr
      20          25          30
His Glu Lys Lys Arg Lys Lys Gln Ser Arg Glu Ala
      35          40          44

```

<210> 1469
 <211> 198
 <212> Amino acid
 <213> Homo sapiens

<400> 1469

```

Ser Gly Asp Leu Ser Pro Ala Glu Leu Met Met Leu Thr Ile Gly Asp
 1           5           10           15
Val Ile Lys Gln Leu Ile Glu Ala His Glu Gln Gly Lys Asp Ile Asp
      20           25           30
Leu Asn Lys Val Lys Thr Lys Thr Ala Ala Lys Tyr Gly Leu Ser Ala
      35           40           45
Gln Pro Arg Leu Val Asp Ile Ile Ala Ala Val Pro Pro Gln Tyr Arg
      50           55           60
Lys Val Leu Met Pro Lys Leu Lys Ala Lys Pro Ile Arg Thr Ala Ser
      65           70           75           80
Gly Ile Ala Val Val Ala Val Met Cys Lys Pro His Arg Cys Pro His
      85           90           95
Ile Ser Phe Thr Gly Asn Ile Cys Val Tyr Cys Pro Gly Gly Pro Asp
      100          105          110
Ser Asp Phe Glu Tyr Ser Thr Gln Ser Tyr Thr Gly Tyr Glu Pro Thr
      115          120          125
Ser Met Arg Ala Ile Arg Ala Arg Tyr Asp Pro Phe Leu Gln Thr Arg
      130          135          140
His Arg Ile Glu Gln Leu Lys Gln Leu Gly His Ser Val Asp Lys Val
      145          150          155          160
Glu Phe Ile Glu Met Gly Gly Thr Phe Met Ala Leu Pro Glu Glu Tyr
      165          170          175
Arg Asp Tyr Phe Ile Arg Asn Leu His Asp Ala Leu Ser Gly His Thr
      180          185          190
Ser Asn Asn Ile Tyr Glu
      195          198

```

<210> 1470

<211> 178

<212>Amino acid

<213> Homo sapiens

<400> 1470

```

Trp Glu Ser Asp Val Gly Glu Gly Leu Arg Pro Pro Pro Pro Pro
 1           5           10           15
Pro Pro Gly Arg Arg Arg Thr Gln Glu Pro Arg Ala Arg Asp Ala Ala
      20           25           30
Thr Val Ile Phe Ala Cys Pro Ala Ala Leu Leu Glu Thr Leu Ile Ala
      35           40           45
Tyr Gly Ser Ser Ser Pro Ser Phe Cys Lys His Arg Ala Ala Arg Pro
      50           55           60
Leu Ile Phe Leu Leu His Arg Leu Thr Ala Glu Ala Thr Ala Arg Cys
      65           70           75           80
Pro Ile Cys Ala Leu Glu Ala Arg Asn Pro Gly Arg Trp Gly Ile Cys
      85           90           95
Ala Ser Trp Pro Gly Met Lys Thr Pro Phe Gly Lys Ala Ala Ala Gly
      100          105          110
Gln Arg Ser Arg Thr Gly Ala Gly His Gly Ser Val Ser Val Thr Met
      115          120          125
Ile Lys Arg Lys Ala Ala His Lys Lys His Arg Ser Arg Pro Thr Ser
      130          135          140
Gln Pro Arg Gly Asn Ile Val Gly Cys Ile Ile Gln His Gly Trp Lys
      145          150          155          160
Asp Gly Asp Glu Pro Leu Thr Gln Trp Lys Gly Thr Val Leu Asp Gln

```

Leu Leu 165 170 175
178

<210> 1471
<211> 253
<212> Amino acid
<213> Homo sapiens

<400> 1471
Arg Asp Leu Gly Val Ala Leu Glu Ala Phe Gln Trp Ala Arg Ala Gly
1 5 10 15
Asp Cys Gly Ser Gly Ala Gly Arg Ala Gly Gly Glu Gly Val Asp Ala
20 25 30
Gly Arg Arg Val Pro Glu Arg Gln His Arg Gly Arg Gly Gly Gly Gly
35 40 45
Glu Pro Gly Arg Arg Gln Arg Gly Gly Arg Arg Gln Arg Ser Ser Ser
50 55 60
Arg Arg Ser Gly Gly Asp Gly Gly Asp Glu Val Glu Gly Ser Gly Val
65 70 75 80
Gly Ala Gly Glu Gly Glu Thr Val Gln His Phe Pro Leu Ala Arg Pro
85 90 95
Lys Ser Leu Met Gln Lys Leu Gln Cys Ser Phe Gln Thr Ser Trp Leu
100 105 110
Lys Asp Phe Pro Trp Leu Arg Tyr Ser Lys Asp Thr Gly Leu Met Ser
115 120 125
Cys Gly Trp Cys Gln Lys Thr Pro Ala Asp Gly Gly Ser Val Asp Leu
130 135 140
Pro Pro Val Gly His Asp Glu Leu Ser Arg Gly Thr Arg Asn Tyr Lys
145 150 155 160
Lys Thr Leu Leu Leu Arg His His Val Ser Thr Glu His Lys Leu His
165 170 175
Glu Ala Asn Ala Gln Glu Ser Glu Ile Pro Ser Glu Glu Gly Tyr Cys
180 185 190
Asp Phe Asn Ser Arg Pro Asn Glu Asn Ser Tyr Cys Tyr Gln Leu Leu
195 200 205
Arg Gln Leu Asn Glu Gln Arg Lys Lys Gly Ile Leu Cys Asp Val Ser
210 215 220
Ile Val Val Ser Gly Lys Ile Phe Lys Ala His Lys Asn Ile Leu Val
225 230 235 240
Ala Gly Ser Arg Phe Phe Lys Thr Leu Tyr Cys Phe Ser
245 250 253

<210> 1472
<211> 147
<212> Amino acid
<213> Homo sapiens

<400> 1472
Ser Leu Arg Ala Ala Ala Met Ala Asp Val Thr Ala Arg Ser Leu
1 5 10 15
Gln Tyr Glu Tyr Lys Ala Asn Ser Asn Leu Val Leu Gln Ala Asp Arg
20 25 30
Ser Leu Ile Asp Arg Thr Arg Arg Asp Glu Pro Thr Gly Glu Val Leu

```

      35      40      45
Ser Leu Val Gly Lys Leu Glu Gly Thr Arg Met Gly Asp Lys Ala Gln
  50      55      60
Arg Thr Lys Pro Gln Met Gln Glu Glu Arg Arg Ala Lys Arg Arg Lys
  65      70      75      80
Arg Asp Glu Asp Arg His Asp Ile Asn Lys Met Lys Gly Tyr Thr Leu
      85      90      95
Leu Ser Glu Gly Ile Asp Glu Met Val Gly Ile Ile Tyr Lys Pro Lys
      100      105      110
Thr Lys Glu Thr Arg Glu Thr Tyr Glu Val Leu Leu Ser Phe Ile Gln
      115      120      125
Ala Ala Leu Gly Asp Gln Pro Arg Asp Ile Leu Cys Gly Ala Ala Asp
      130      135      140
Glu Val Leu
145      147

```

```

<210> 1473
<211> 139
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1473
Cys Asn Ser Ala Glu Ser Arg Met Asp Val Leu Phe Val Ala Ile Phe
  1      5      10      15
Ala Val Pro Leu Ile Leu Gly Gln Glu Tyr Glu Asp Glu Glu Arg Leu
      20      25      30
Gly Glu Asp Glu Tyr Tyr Gln Val Val Tyr Tyr Tyr Thr Val Thr Pro
      35      40      45
Ser Tyr Asp Asp Phe Ser Ala Asp Phe Thr Ile Asp Tyr Ser Ile Phe
      50      55      60
Glu Ser Glu Asp Arg Leu Asn Arg Leu Asp Lys Asp Ile Thr Glu Ala
      65      70      75      80
Ile Glu Thr Thr Ile Ser Leu Glu Thr Ala Arg Ala Asp His Pro Lys
      85      90      95
Pro Val Thr Val Lys Pro Val Thr Thr Glu Pro Gln Ser Pro Asp Leu
      100      105      110
Asn Asp Ala Val Ser Ser Leu Arg Ser Pro Ile Pro Leu Leu Leu Ser
      115      120      125
Cys Ala Phe Val Gln Val Gly Met Tyr Phe Met
      130      135      139

```

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<210> 1474
<211> 185
<212>Amino acid
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (1)...(185)
<223> X = any amino acid or stop code

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```

      <400> 1474
Phe Val Arg Gly Pro Gly Glu Glu Gln Ala Pro Ala Phe Arg Lys Pro
  1      5      10      15

```

Ala Pro Gly Ala Met Gly Ala Gln Val Arg Leu Pro Pro Gly Glu Pro
 20 25 30
 Cys Arg Glu Gly Tyr Val Leu Ser Leu Val Cys Pro Asn Ser Ser Gln
 35 40 45
 Ala Trp Cys Glu Ile Thr Asn Val Ser Gln Leu Leu Ala Ser Pro Val
 50 55 60
 Leu Tyr Thr Asp Leu Asn Tyr Ser Ile Asn Asn Leu Ser Ile Ser Ala
 65 70 75 80
 Asn Val Glu Asn Lys Tyr Ser Leu Tyr Val Gly Leu Val Leu Ala Val
 85 90 95
 Ser Ser Ser Ile Phe Ile Gly Ser Ser Phe Ile Leu Lys Lys Lys Gly
 100 105 110
 Leu Leu Gln Leu Ala Ser Lys Gly Phe Thr Arg Ala Gly Gln Gly Gly
 115 120 125
 His Ser Tyr Leu Lys Glu Trp Leu Trp Trp Val Gly Leu Leu Ser Ile
 130 135 140
 Leu Ser Trp Asn Ala Arg Glu Lys Val Asp Leu Xaa Asn Ile Thr Phe
 145 150 155 160
 Xaa Pro Gln Thr Ser Cys Ile Phe Phe Thr Ile Thr Ile Glu Lys Ser
 165 170 175
 Thr Phe Leu Ser Tyr Phe Pro Thr Ser
 180 185

<210> 1475

<211> 91

<212>Amino acid

<213> Homo sapiens

<400> 1475

Ala Arg Gly Ser Cys Pro Thr Arg Pro Arg Pro Ala Asn Gly Arg Met
 1 5 10 15
 Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp Val
 20 25 30
 Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala Gln
 35 40 45
 Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu Val
 50 55 60
 Ser Leu Gly His Arg Val Pro Lys Pro Glu Leu Val His Leu Leu Lys
 65 70 75 80
 His Gly Gln Glu Leu Trp Ile Val Lys Arg Gly
 85 90 91

<210> 1476

<211> 159

<212>Amino acid

<213> Homo sapiens

<400> 1476

Tyr Thr Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro
 1 5 10 15
 Glu Val Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala
 20 25 30
 Asp Leu Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val
 35 40 45

```

Gln Lys Pro Gly Gly Thr Val Ile Leu Gly Cys Val Val Glu Pro Pro
 50          55          60
Arg Met Asn Val Thr Trp Arg Leu Asn Gly Lys Glu Leu Asn Gly Ser
 65          70          75          80
Asp Asp Ala Leu Gly Val Leu Ile Thr His Gly Thr Leu Val Ile Thr
          85          90          95
Ala Leu Asn Asn His Thr Val Gly Arg Tyr Gln Cys Val Ala Arg Met
          100          105          110
Pro Ala Gly Ala Val Ala Ser Val Pro Ala Thr Val Thr Leu Ala Ser
          115          120          125
Glu Ser Ala Pro Leu Pro Pro Cys His Gly Ala Val Pro Pro His Leu
          130          135          140
Ser His Pro Glu Ala Pro Thr Ile His Ala Ala Ser Cys Tyr Ser
145          150          155          159

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<210> 1477
<211> 139
<212>Amino acid
<213> Homo sapiens

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<400> 1477
Trp Gly Arg Arg Arg Gln Leu Val Ser Glu Ala Ala Arg Ala Gln Gly
 1          5          10          15
Asp Pro Val Cys Ser Thr Met Ser Glu Glu Glu Ala Ala Gln Ile Pro
          20          25          30
Arg Ser Ser Val Trp Glu Gln Asp Gln Gln Asn Val Val Gln Arg Val
          35          40          45
Val Ala Leu Pro Leu Val Arg Ala Thr Cys Thr Ala Val Cys Asp Val
          50          55          60
Tyr Ser Ala Ala Lys Asp Arg His Pro Leu Leu Gly Ser Ala Cys Arg
          65          70          75          80
Leu Ala Glu Asn Cys Val Cys Gly Leu Thr Thr Arg Ala Leu Asp His
          85          90          95
Ala Gln Pro Leu Leu Glu His Leu Gln Pro Gln Leu Ala Thr Met Asn
          100          105          110
Ser Leu Ala Cys Arg Gly Leu Asp Lys Leu Glu Glu Lys Leu Pro Phe
          115          120          125
Leu Gln Gln Pro Ser Glu Thr Val Val Thr Ser
130          135          139

```

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<210> 1478
<211> 331
<212>Amino acid
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(331)
<223> X = any amino acid or stop code

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<400> 1478
Ala Lys Ala Phe Thr Met Ala Glu Ser Pro Gly Cys Cys Ser Val Trp
 1          5          10          15
Ala Arg Cys Leu His Cys Leu Tyr Ser Cys His Trp Arg Lys Cys Pro

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917